

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/10/2020

Reviewed on 08/10/2020

## 1 Identification

- **Product identifier**
- **Trade name:** Formamide, Ultra High Purity
- **Article number:** 15745, 15746, 15747
- **CAS Number:**  
75-12-7
- **EC number:**  
200-842-0
- **Index number:**  
616-052-00-8
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Repr. 1B H360 May damage fertility or the unborn child.

- **Label elements**
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard statements**  
May damage fertility or the unborn child.
- **Precautionary statements**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF exposed or concerned: Get medical advice/attention.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

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Trade name: **Formamide, Ultra High Purity**

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· **Classification system:**· **NFPA ratings (scale 0 - 4)**

Health = 0

Fire = 1

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = \*0

Fire = 1

Reactivity = 0

· **Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Substances**· **CAS No. Description**

75-12-7 Formamide, Ultra High Purity

· **Identification number(s)**· **EC number:** 200-842-0· **Index number:** 616-052-00-8

### 4 First-aid measures

· **Description of first aid measures**· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:** Generally the product does not irritate the skin.· **After eye contact:** Rinse opened eye for several minutes under running water.· **After swallowing:** If symptoms persist consult doctor.· **Information for doctor:**· **Most important symptoms and effects, both acute and delayed** No further relevant information available.· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

· **Extinguishing media**· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.· **Special hazards arising from the substance or mixture** No further relevant information available.· **Advice for firefighters**· **Protective equipment:** No special measures required.

### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.

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**Trade name: Formamide, Ultra High Purity**

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- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**
  - PAC-1: 30 ppm
  - PAC-2: 110 ppm
  - PAC-3: 650 ppm

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Open and handle receptacle with care.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

**75-12-7 Formamide, Ultra High Purity**

REL	Long-term value: 15 mg/m <sup>3</sup> , 10 ppm Skin
-----	--------------------------------------------------------

TLV	Long-term value: (18) NIC-1.9 mg/m <sup>3</sup> , (10) NIC-1 ppm Skin, NIC-A3
-----	----------------------------------------------------------------------------------

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.
- **Breathing equipment:** Not required.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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**Trade name: Formamide, Ultra High Purity**

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*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

· **Material of gloves**

*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.*

· **Penetration time of glove material**

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

· **Eye protection:** Goggles recommended during refilling.

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	Fluid
<b>Color:</b>	Yellowish
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

<b>Melting point/Melting range:</b>	2.5 °C (36.5 °F)
<b>Boiling point/Boiling range:</b>	210.5 °C (410.9 °F)

· **Flash point:** 175 °C (347 °F)

· **Flammability (solid, gaseous):** Not flammable.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Not determined.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

· **Vapor pressure at 20 °C (68 °F):** 0.03 hPa (0 mm Hg)

· **Density at 20 °C (68 °F):** 1.1339 g/cm<sup>3</sup> (9.4624 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

**Water:** Fully miscible.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

· **Other information** No further relevant information available.

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Trade name: **Formamide, Ultra High Purity**

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### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>
---------------------------------------------------------------

Oral LD50 5,570 mg/kg (rat)
-----------------------------

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)** Substance is not listed.
- **NTP (National Toxicology Program)** Substance is not listed.
- **OSHA-Ca (Occupational Safety Health Administration)** Substance is not listed.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Assessment by list): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Trade name: Formamide, Ultra High Purity

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

<b>· UN-Number</b>	Void
<b>· DOT, ADR, IMDG, IATA</b>	Void
<b>· UN proper shipping name</b>	Void
<b>· DOT, ADR, IMDG, IATA</b>	Void
<b>· Transport hazard class(es)</b>	Void
<b>· DOT, ADR, ADN, IMDG, IATA</b>	Void
<b>· Class</b>	Void
<b>· Packing group</b>	Void
<b>· DOT, ADR, IMDG, IATA</b>	Void
<b>· Environmental hazards:</b>	Not applicable.
<b>· Special precautions for user</b>	Not applicable.
<b>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>· UN "Model Regulation":</b>	Void

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):** Substance is not listed.
- **Section 313 (Specific toxic chemical listings):** Substance is not listed.
- **TSCA (Toxic Substances Control Act):** ACTIVE
- **Hazardous Air Pollutants** Substance is not listed.
- **Proposition 65**
- **Chemicals known to cause cancer:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.
- **Chemicals known to cause developmental toxicity:** Substance is not listed.
- **Carcinogenic categories**
- **EPA (Environmental Protection Agency)** Substance is not listed.
- **TLV (Threshold Limit Value established by ACGIH)** Substance is not listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



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**Trade name: Formamide, Ultra High Purity**

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- **Signal word** *Danger*
- **Hazard statements**  
*May damage fertility or the unborn child.*
- **Precautionary statements**  
*Obtain special instructions before use.*  
*Do not handle until all safety precautions have been read and understood.*  
*Wear protective gloves/protective clothing/eye protection/face protection.*  
*IF exposed or concerned: Get medical advice/attention.*  
*Store locked up.*  
*Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Date of preparation / last revision** 08/10/2020 / -
- **Abbreviations and acronyms:**  
*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*  
*IMDG: International Maritime Code for Dangerous Goods*  
*DOT: US Department of Transportation*  
*IATA: International Air Transport Association*  
*ACGIH: American Conference of Governmental Industrial Hygienists*  
*EINECS: European Inventory of Existing Commercial Chemical Substances*  
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*  
*NFPA: National Fire Protection Association (USA)*  
*HMIS: Hazardous Materials Identification System (USA)*  
*LC50: Lethal concentration, 50 percent*  
*LD50: Lethal dose, 50 percent*  
*PBT: Persistent, Bioaccumulative and Toxic*  
*vPvB: very Persistent and very Bioaccumulative*  
*NIOSH: National Institute for Occupational Safety*  
*OSHA: Occupational Safety **Health***  
**TLV: Threshold Limit Value**  
**PEL: Permissible Exposure Limit**  
**REL: Recommended Exposure Limit**  
**Repr. 1B: Reproductive toxicity – Category 1B**

US

# Safety Data Sheet

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Revision: 10.08.2020

### 1 Identification

- **Product identifier**
- **Trade name:** Formamide, Ultra High Purity
- **Article number:** 15745, 15746, 15747
- **CAS Number:**  
75-12-7
- **EC number:**  
200-842-0
- **Index number:**  
616-052-00-8
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
  
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
  
- ProSciTech Pty Ltd  
11 Carlton Street, Kirwan QLD 4817 Australia  
Telephone Number: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)  
Emergency Contact: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)  
Website: ems.proscitech.com
  
- Emgrid Australia Pty. Ltd.  
P.O. Box 118  
The Patch VIC 3792  
Australia  
Tel: 03 9752 1785  
Fax: 03 9752 1784  
Website: www.emgrid.com.au
  
- **Further information obtainable from:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**



GHS08 health hazard

Repr. 1B H360 May damage fertility or the unborn child.

- **Label elements**
- **GHS label elements**

The substance is classified and labelled according to the Globally Harmonised System (GHS).

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Trade name: **Formamide, Ultra High Purity**

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· **Hazard pictograms**

GHS08

· **Signal word** *Danger*· **Hazard statements***May damage fertility or the unborn child.*· **Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Wear protective gloves/protective clothing/eye protection/face protection.**IF exposed or concerned: Get medical advice/attention.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*· **Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** *Not applicable.*· **vPvB:** *Not applicable.*

### 3 Composition and Information on Ingredients

· **Chemical characterisation: Substances**· **CAS No. Description***75-12-7 Formamide, Ultra High Purity*· **Identification number(s)**· **EC number:** *200-842-0*· **Index number:** *616-052-00-8*· **SVHC***75-12-7 Formamide, Ultra High Purity*

### 4 First Aid Measures

· **Description of first aid measures**· **After inhalation:** *Supply fresh air; consult doctor in case of complaints.*· **After skin contact:** *Generally the product does not irritate the skin.*· **After eye contact:** *Rinse opened eye for several minutes under running water.*· **After swallowing:** *If symptoms persist consult doctor.*· **Information for doctor:**· **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*· **Indication of any immediate medical attention and special treatment needed***No further relevant information available.*

### 5 Fire Fighting Measures

· **Extinguishing media**· **Suitable extinguishing agents:** *Use fire extinguishing methods suitable to surrounding conditions.*· **Special hazards arising from the substance or mixture** *No further relevant information available.*

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**Trade name: Formamide, Ultra High Purity**

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- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**
  - Dilute with plenty of water.
  - Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose contaminated material as waste according to item 13.
- **Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling** Open and handle receptacle with care.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

**75-12-7 Formamide, Ultra High Purity**

WES	Long-term value: 18 mg/m <sup>3</sup> , 10 ppm
Sk	

- **Additional information:** The lists valid during the making were used as basis.

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing
  - Wash hands before breaks and at the end of work.
  - Store protective clothing separately.
- **Respiratory protection:** Not required.
- **Protection of hands:**
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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**Trade name: Formamide, Ultra High Purity**

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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling

### 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Fluid
· <b>Colour:</b>	Yellowish
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· <b>Melting point/freezing point:</b>	2.5 °C
· <b>Initial boiling point and boiling range:</b>	210.5 °C

· **Flash point:** 175 °C

· **Flammability (solid, gas):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Not determined.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· **Vapour pressure at 20 °C:** 0.03 hPa

· <b>Density at 20 °C:</b>	1.1339 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.

· **Solubility in / Miscibility with water:**

Fully miscible.

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.

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# Safety Data Sheet

## according to WHS Regulations

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**Trade name: Formamide, Ultra High Purity**

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· **Other information** No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:**

Oral	LD50	5,570 mg/kg (rat)
------	------	-------------------

- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Repr. 1B

### 12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Trade name: *Formamide, Ultra High Purity*

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

· <b>UN-Number</b>	
· <b>ADG, IMDG, IATA</b>	<i>not regulated</i>
· <b>UN proper shipping name</b>	
· <b>ADG, IMDG, IATA</b>	<i>not regulated</i>
· <b>Transport hazard class(es)</b>	
· <b>ADG, ADN, IMDG, IATA</b>	
· <b>Class</b>	<i>not regulated</i>
· <b>Packing group</b>	
· <b>ADG, IMDG, IATA</b>	<i>not regulated</i>
· <b>Environmental hazards:</b>	<i>Not applicable.</i>
· <b>Special precautions for user</b>	<i>Not applicable.</i>
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	<i>Not applicable.</i>
· <b>UN "Model Regulation":</b>	<i>not regulated</i>

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Australian Inventory of Chemical Substances** Substance is listed.
- **Standard for the Uniform Scheduling of Medicines and Poisons** Substance is not listed.
- **Australia: Priority Existing Chemicals** Substance is not listed.
- **GHS label elements**  
The substance is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** *Danger*
- **Hazard statements**  
*May damage fertility or the unborn child.*
- **Precautionary statements**  
*Obtain special instructions before use.*  
*Do not handle until all safety precautions have been read and understood.*  
*Wear protective gloves/protective clothing/eye protection/face protection.*  
*IF exposed or concerned: Get medical advice/attention.*  
*Store locked up.*  
*Dispose of contents/container in accordance with local/regional/national/international regulations.*

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- **Directive 2012/18/EU**
  - **Named dangerous substances - ANNEX I Substance is not listed.**
  - **National regulations:**
  - **Other regulations, limitations and prohibitive regulations**
  - **Substances of very high concern (SVHC) according to REACH, Article 57**
- |         |                              |
|---------|------------------------------|
| 75-12-7 | Formamide, Ultra High Purity |
|---------|------------------------------|
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*SVHC: Substances of Very High Concern*

*vPvB: very Persistent and very Bioaccumulative*

*Repr. 1B: Reproductive toxicity – Category 1B*

AU

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 08/10/2020

Reviewed on 08/10/2020

### 1 Identification

- **Product identifier**
- **Trade name:** Formamide, Ultra High Purity
- **Article number:** 15745, 15746, 15747
- **CAS Number:**  
75-12-7
- **EC number:**  
200-842-0
- **Index number:**  
616-052-00-8
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### 2 Hazard identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Reproductive Toxicity - Category 1B H360 May damage fertility or the unborn child.

- **Label elements**
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard statements**  
May damage fertility or the unborn child.
- **Precautionary statements**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF exposed or concerned: Get medical advice/attention.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 08/10/2020

Reviewed on 08/10/2020

Trade name: **Formamide, Ultra High Purity**

(Contd. of page 1)

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



### 3 Composition/Information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
75-12-7 Formamide, Ultra High Purity
- **Identification number(s)**
- **EC number:** 200-842-0
- **Index number:** 616-052-00-8

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

(Contd. on page 3)



# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 08/10/2020

Reviewed on 08/10/2020

**Trade name: Formamide, Ultra High Purity**

(Contd. of page 2)

Dispose contaminated material as waste according to item 13.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

· **Handling:**

· **Precautions for safe handling** Open and handle receptacle with care.

· **Information about protection against explosions and fires:** Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** None.

· **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/ Personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

75-12-7 Formamide, Ultra High Purity

EL	TWA: 10 ppm
	Skin
EV	TWA: 15 mg/m <sup>3</sup> , 10 ppm
	Skin

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· **Breathing equipment:** Not required.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 4)

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 08/10/2020

Reviewed on 08/10/2020

Trade name: *Formamide, Ultra High Purity*

(Contd. of page 3)

· **Eye protection:** *Goggles recommended during refilling.*

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

· <b>Form:</b>	<i>Fluid</i>
· <b>Color:</b>	<i>Yellowish</i>
· <b>Odor:</b>	<i>Odorless</i>
· <b>Odor threshold:</b>	<i>Not determined.</i>

· **pH-value:** *Not determined.*· **Change in condition**

· <b>Melting point/Melting range:</b>	<i>2.5 °C</i>
· <b>Boiling point/Boiling range:</b>	<i>210.5 °C</i>

· **Flash point:** *175 °C*· **Flammability (solid, gaseous):** *Not flammable.*· **Decomposition temperature:** *Not determined.*· **Auto igniting:** *Not determined.*· **Danger of explosion:** *Product does not present an explosion hazard.*· **Explosion limits:**

· <b>Lower:</b>	<i>Not determined.</i>
· <b>Upper:</b>	<i>Not determined.</i>

· **Vapor pressure at 20 °C:** *0.03 hPa*· **Density at 20 °C:** *1.1339 g/cm<sup>3</sup>*· **Relative density** *Not determined.*· **Vapor density** *Not determined.*· **Evaporation rate** *Not determined.*· **Solubility in / Miscibility with**

· <b>Water:</b>	<i>Fully miscible.</i>
-----------------	------------------------

· **Partition coefficient (n-octanol/water):** *Not determined.*· **Viscosity:**

· <b>Dynamic:</b>	<i>Not determined.</i>
· <b>Kinematic:</b>	<i>Not determined.</i>

· <b>Other information</b>	<i>No further relevant information available.</i>
----------------------------	---------------------------------------------------

### 10 Stability and reactivity

· **Reactivity** *No further relevant information available.*· **Chemical stability**· **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*· **Possibility of hazardous reactions** *No dangerous reactions known.*· **Conditions to avoid** *No further relevant information available.*· **Incompatible materials:** *No further relevant information available.*

(Contd. on page 5)

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 08/10/2020

Reviewed on 08/10/2020

**Trade name: Formamide, Ultra High Purity**

(Contd. of page 4)

· **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

Oral	LD50	5,570 mg/kg (rat)
------	------	-------------------

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)** Substance is not listed.

· **NTP (National Toxicology Program)** Substance is not listed.

### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

· **UN-Number**

· **DOT/TDG, ADR, IMDG, IATA**                      Void

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# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 08/10/2020

Reviewed on 08/10/2020

Trade name: *Formamide, Ultra High Purity*

(Contd. of page 5)

· <i>UN proper shipping name</i> · <i>DOT/TDG, ADR, IMDG, IATA</i>	Void
· <i>Transport hazard class(es)</i> · <i>DOT, ADR, ADN, IMDG, IATA</i> · <i>Class</i>	Void
· <i>Packing group</i> · <i>DOT/TDG, ADR, IMDG, IATA</i>	Void
· <i>Environmental hazards:</i>	Not applicable.
· <i>Special precautions for user</i>	Not applicable.
· <i>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</i>	Not applicable.
· <i>UN "Model Regulation":</i>	Void

### 15 Regulatory information

- *Safety, health and environmental regulations/legislation specific for the substance or mixture*
- *Sara*
- *Section 355 (extremely hazardous substances): Substance is not listed.*
- *Section 313 (Specific toxic chemical listings): Substance is not listed.*
- *TSCA (Toxic Substances Control Act): ACTIVE*
- *Canadian substance listings:*
- *Canadian Domestic Substances List (DSL) Substance is listed.*
- *Canadian Ingredient Disclosure list (limit 0.1%) Substance is listed.*
- *Canadian Ingredient Disclosure list (limit 1%) Substance is not listed.*
- *GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).*
- *Hazard pictograms*



GHS08

- *Signal word Danger*
- *Hazard statements*  
*May damage fertility or the unborn child.*
- *Precautionary statements*  
*Obtain special instructions before use.*  
*Do not handle until all safety precautions have been read and understood.*  
*Wear protective gloves/protective clothing/eye protection/face protection.*  
*IF exposed or concerned: Get medical advice/attention.*  
*Store locked up.*  
*Dispose of contents/container in accordance with local/regional/national/international regulations.*
- *Chemical safety assessment: A Chemical Safety Assessment has not been carried out.*

CA

(Contd. on page 7)

**Safety Data Sheet**  
**according to HPR, Schedule 1**

Printing date 08/10/2020

Reviewed on 08/10/2020

**Trade name: Formamide, Ultra High Purity**

(Contd. of page 6)

### **16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Date of the latest revision of the safety data sheet** 08/10/2020 / -

· **Abbreviations and acronyms:**

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

CA

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 10.08.2020

Revision: 10.08.2020

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Formamide, Ultra High Purity
- **Article number:** 15745, 15746, 15747
- **CAS Number:**  
75-12-7
- **EC number:**  
200-842-0
- **Index number:**  
616-052-00-8
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Repr. 1B H360D May damage the unborn child.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS08

- **Signal word** *Danger*
- **Hazard statements**  
H360D May damage the unborn child.
- **Precautionary statements**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.

(Contd. on page 2)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2020

Revision: 10.08.2020

**Trade name: Formamide, Ultra High Purity**

(Contd. of page 1)

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

**3.1 Chemical characterisation: Substances**

**CAS No. Description**

75-12-7 Formamide, Ultra High Purity

**Identification number(s)**

· **EC number:** 200-842-0

· **Index number:** 616-052-00-8

**SVHC**

75-12-7	Formamide, Ultra High Purity
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## SECTION 4: First aid measures

**4.1 Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

**5.3 Advice for firefighters**

· **Protective equipment:** No special measures required.

## SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Not required.

**6.2 Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

(Contd. on page 3)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 10.08.2020

Revision: 10.08.2020

Trade name: **Formamide, Ultra High Purity**

(Contd. of page 2)

See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** Open and handle receptacle with care.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

**75-12-7 Formamide, Ultra High Purity**WEL Short-term value: 56 mg/m<sup>3</sup>, 30 ppmLong-term value: 37 mg/m<sup>3</sup>, 20 ppm

- **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· **Respiratory protection:** Not required.· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling

GB

(Contd. on page 4)



**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 10.08.2020

Revision: 10.08.2020

Trade name: Formamide, Ultra High Purity

(Contd. of page 3)

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Fluid
· <b>Colour:</b>	Yellowish
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· <b>Melting point/freezing point:</b>	2.5 °C
· <b>Initial boiling point and boiling range:</b>	210.5 °C

· **Flash point:** 175 °C

· **Flammability (solid, gas):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Not determined.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· **Vapour pressure at 20 °C:** 0.03 hPa

· <b>Density at 20 °C:</b>	1.1339 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.

· **Solubility in / Miscibility with water:** Fully miscible.

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.

· **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

GB

(Contd. on page 5)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 10.08.2020

Revision: 10.08.2020

Trade name: **Formamide, Ultra High Purity**

(Contd. of page 4)

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

Oral	LD50	5,570 mg/kg (rat)
------	------	-------------------

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
May damage the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** not regulated

(Contd. on page 6)

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 10.08.2020

Revision: 10.08.2020

Trade name: **Formamide, Ultra High Purity**

(Contd. of page 5)

- |                                                                                             |                        |
|---------------------------------------------------------------------------------------------|------------------------|
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR, IMDG, IATA</b>                           | <i>not regulated</i>   |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR, ADN, IMDG, IATA</b><br>· <b>Class</b> | <i>not regulated</i>   |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>                                     | <i>not regulated</i>   |
| · <b>14.5 Environmental hazards:</b>                                                        | <i>Not applicable.</i> |
| · <b>14.6 Special precautions for user</b>                                                  | <i>Not applicable.</i> |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>            | <i>Not applicable.</i> |
| · <b>UN "Model Regulation":</b>                                                             | <i>not regulated</i>   |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Directive 2012/18/EU**
  - **Named dangerous substances - ANNEX I Substance is not listed.**
  - **REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 30**
  - **National regulations:**
  - **Other regulations, limitations and prohibitive regulations**
- |                                                                                |
|--------------------------------------------------------------------------------|
| · <b>Substances of very high concern (SVHC) according to REACH, Article 57</b> |
| 75-12-7 Formamide, Ultra High Purity                                           |
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Repr. 1B: Reproductive toxicity – Category 1B

# Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 10.08.2020

Herziening van: 10.08.2020

## RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming

- **1.1 Productidentificatie**
- **Handelsnaam:** formamide
- **Artikelnummer:** 15745, 15746, 15747
- **CAS-nummer:**  
75-12-7
- **EC-nummer:**  
200-842-0
- **Catalogusnummer:**  
616-052-00-8
- **1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik**  
Geen verdere relevante informatie verkrijgbaar.
- **Toepassing van de stof / van de bereiding** Laboratoriumchemicaliën
- **1.3 Details betreffende de verstrekker van het veiligheidsinformatieblad**
- **Fabrikant/leverancier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- 
- Aurion  
Binnenhaven 5  
6709 PD Wageningen  
The Netherlands  
Tel: 31 317 415094  
Fax: 31 317 415955  
email: info@aurion.nl
- **Inlichtingengevende sector:** Product safety department
- **1.4 Telefoonnummer voor noodgevallen:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## RUBRIEK 2: Identificatie van de gevaren

- **2.1 Indeling van de stof of het mengsel**
- **Indeling overeenkomstig Verordening (EG) nr. 1272/2008**



GHS08 gezondheidsgevaar

Repr. 1B H360D Kan het ongeboren kind schaden.

- **2.2 Etiketteringselementen**
- **Etikettering overeenkomstig Verordening (EG) nr. 1272/2008**  
De stof product is geclassificeerd en geëtiketteerd volgens de CLP-verordening.
- **Gevarenpictogrammen**



GHS08

- **Signaalwoord** Gevaar

(Vervolg op blz. 2)

# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

datum van de druk: 10.08.2020

Herziening van: 10.08.2020

**Handelsnaam: formamide**

(Vervolg van blz. 1)

- **Gevarenaanduidingen**

H360D Kan het ongeboren kind schaden.

- **Veiligheidsaanbevelingen**

P201 Alvorens te gebruiken de speciale aanwijzingen raadplegen.

P202 Pas gebruiken nadat u alle veiligheidsvoorschriften gelezen en begrepen heeft.

P280 Beschermende handschoenen/beschermende kleding/oogbescherming/gelaatsbescherming dragen.

P308+P313 NA (mogelijke) blootstelling: een arts raadplegen.

P405 Achter slot bewaren.

P501 De inhoud en de verpakking verwerken volgens de plaatselijke/regionale/nationale/internationale voorschriften.

- **2.3 Andere gevaren**

- **Resultaten van PBT- en zPzB-beoordeling**

- **PBT:** Niet bruikbaar.

- **zPzB:** Niet bruikbaar.

### RUBRIEK 3: Samenstelling en informatie over de bestanddelen

- **3.1 Chemische karakterisering: Stoffen**

- **CAS-Nr. omschrijving**

75-12-7 formamide

- **Identificatienummer(s)**

- **EC-nummer:** 200-842-0

- **Catalogusnummer:** 616-052-00-8

- **SVHC**

75-12-7 formamide

### RUBRIEK 4: Eerstehulpmaatregelen

- **4.1 Beschrijving van de eerstehulpmaatregelen**

- **Na het inademen:** Frisse lucht toedienen; bij klachten arts ontbieden.

- **Na huidcontact:** Over het algemeen is het produkt niet prikkelend voor de huid

- **Na oogcontact:** Ogen bij geopend ooglid meerdere minuten met stromend water spoelen

- **Na inslikken:** Als de klachten niet minderen, een arts raadplegen

- **4.2 Belangrijkste acute en uitgestelde symptomen en effecten** Geen verdere relevante informatie verkrijgbaar.

- **4.3 Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling**

Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 5: Brandbestrijdingsmaatregelen

- **5.1 Blusmiddelen**

- **Geschikte blusmiddelen:** Brandblusmaatregelen op omgeving afstemmen.

- **5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt**

Geen verdere relevante informatie verkrijgbaar.

- **5.3 Advies voor brandweerlieden**

- **Speciale beschermende kleding:** Geen bijzondere maatregelen nodig.

### RUBRIEK 6: Maatregelen bij het accidenteel vrijkomen van de stof of het mengsel

- **6.1 Persoonlijke voorzorgsmaatregelen, beschermde uitrusting en noodprocedures** Niet nodig.

(Vervolg op blz. 3)

## Veiligheidsinformatieblad volgens 1907/2006/EG, Artikel 31

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**Handelsnaam: formamide**

(Vervolg van blz. 2)

- **6.2 Milieuvorzorgsmaatregelen:**  
Met veel water verdunnen.  
Niet in de riolering/het oppervlaktewater/het grondwater laten terechtkomen.
- **6.3 InsluTINGS- en reinigingsmethoden en -materiaal:**  
Met vloeistofbindend materiaal (zand, bergmeel, zuurbinder, universele binder, zaagmeel) opnemen.  
Besmet materiaal zoals afval volgens punt 13 verwijderen.
- **6.4 Verwijzing naar andere rubrieken**  
Informatie inzake veilig gebruik - zie hoofdstuk 7.  
Informatie inzake persoonlijke beschermingsuitrusting - zie hoofdstuk 8.  
Informatie inzake berging - zie hoofdstuk 13.

### RUBRIEK 7: Hantering en opslag

- **7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel**  
Tanks voorzichtig openen en behandelen.
- **Informatie m.b.t. brand- en ontploffingsgevaar:** Ademhalingsstoestellen gereedhouden.
- **7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten**
- **Opslag:**
- **Eisen ten opzichte van opslagruimte en tanks:** Geen bijzondere eisen.
- **Informatie m.b.t. gezamenlijke opslag:** Niet noodzakelijk.
- **Verdere inlichtingen over eisen m.b.t. de opslag:** Geen.
- **7.3 Specifiek eindgebruik** Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 8: Maatregelen ter beheersing van blootstelling/persoonlijke bescherming

- **Aanvullende gegevens m.b.t. de inrichting van technische installaties:** Geen aanvullende gegevens. Zie 7.
- **8.1 Controleparameters**
- **Bestanddelen met grenswaarden die m.b.t. de werkruimte in acht genomen moeten worden:** Vervalt.
- **Aanvullende gegevens:** Als basis dienden lijsten die bij opstelling geldig waren.
- **8.2 Maatregelen ter beheersing van blootstelling**
- **Persoonlijke beschermingsvoorzieningen:**
- **Algemene beschermings- en gezondheidsmaatregelen:**  
Verwijderd houden van eet- en drinkwaren.  
Verontreinigde kleding onmiddellijk uittrekken.  
Vóór de pauze en aan het einde van werktijd handen wassen.  
Beschermende kleding afzonderlijk bewaren.
- **Ademhalingsbescherming:** Niet noodzakelijk.
- **Handbescherming:**  
Het handschoenmateriaal moet ondoorlatend en bestand zijn tegen het product / de stof / de bereiding.  
Op grond van falende testen kan geen aanbeveling voor handschoenmateriaal voor het product / de bereiding / het chemicaliënmengsel afgegeven worden.  
Kies handschoenmateriaal rekening houdend met de penetratietijden, de permeatiegraden en de degradatie.
- **Handschoenmateriaal**  
De keuze van een geschikte handschoen is niet alleen afhankelijk van het materiaal, maar ook van andere kwaliteitskenmerken en verschilt van fabrikant tot fabrikant.
- **Doordringingstijd van het handschoenmateriaal**  
De precieze penetratietijd kunt u te weten komen bij de handschoenfabrikant; houd er rekening mee.

(Vervolg op blz. 4)

# Veiligheidsinformatieblad

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(Vervolg van blz. 3)

- **Oogbescherming:** Bij het omgieten is het gebruik van een veiligheidsbril aan te bevelen.

### RUBRIEK 9: Fysische en chemische eigenschappen

#### · 9.1 Informatie over fysische en chemische basiseigenschappen

##### · Algemene gegevens

##### · Voorkomen:

Vorm:	Vloeibaar
Kleur:	Geelachtig
Geur:	Reukloos
Geurdrempelwaarde:	Niet bepaald.

· pH-waarde: Niet bepaald.

##### · Toestandsverandering

Smelt-/vriespunt:	2,5 °C
Beginkookpunt en kooktraject:	210,5 °C

· Vlampunt: 175 °C

· Ontvlambaarheid (vast, gas): Niet bruikbaar.

· Ontledingstemperatuur: Niet bepaald.

· Zelfontbrandingstemperatuur: Niet bepaald.

· Ontploffingseigenschappen: Het produkt is niet ontploffingsgevaarlijk.

##### · Ontploffingsgrenzen:

Onderste:	Niet bepaald.
Bovenste:	Niet bepaald.

· Dampspanning bij 20 °C: 0,03 hPa

· Dichtheid bij 20 °C: 1,1339 g/cm<sup>3</sup>

· Relatieve dichtheid: Niet bepaald.

· Dampdichtheid: Niet bepaald.

· Verdampingssnelheid: Niet bepaald.

##### · Oplosbaarheid in/mengbaarheid met

Water: Volledig mengbaar.

· Verdelingscoëfficiënt: n-octanol/water: Niet bepaald.

##### · Viscositeit

Dynamisch: Niet bepaald.

Kinematisch: Niet bepaald.

· 9.2 Overige informatie: Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 10: Stabiliteit en reactiviteit

· 10.1 Reactiviteit: Geen verdere relevante informatie verkrijgbaar.

· 10.2 Chemische stabiliteit

· Thermische afbraak / te vermijden omstandigheden: Geen afbraak bij gebruik volgens voorschrift.

· 10.3 Mogelijke gevaarlijke reacties: Geen gevaarlijke reacties bekend.

· 10.4 Te vermijden omstandigheden: Geen verdere relevante informatie verkrijgbaar.

· 10.5 Chemisch op elkaar inwerkende materialen: Geen verdere relevante informatie verkrijgbaar.

(Vervolg op blz. 5)



# Veiligheidsinformatieblad

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- **10.6 Gevaarlijke ontledingsproducten:** Geen gevaarlijke ontbindingsprodukten bekend.

### RUBRIEK 11: Toxicologische informatie

- **11.1 Informatie over toxicologische effecten**
- **Acute toxiciteit** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

- **Indelingsrelevantie LD/LC50-waarden:**

Oraal	LD50	5.570 mg/kg (rat)
-------	------	-------------------

- **Primaire aandoening:**
- **Huidcorrosie/-irritatie** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Ernstig oogletsel/oogirritatie** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Sensibilisatie van de luchtwegen/de huid**  
Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **CMR-effecten (kankerverwekkendheid, mutageniteit en giftigheid voor de voortplanting)**
- **Mutageniteit in geslachtscellen** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Kankerverwekkendheid** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Giftigheid voor de voortplanting**  
Kan het ongeboren kind schaden.
- **STOT bij eenmalige blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **STOT bij herhaalde blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Gevaar bij inademing** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

### RUBRIEK 12: Ecologische informatie

- **12.1 Toxiciteit**
- **Aquatische toxiciteit:** Geen verdere relevante informatie verkrijgbaar.
- **12.2 Persistentie en afbreekbaarheid** Geen verdere relevante informatie verkrijgbaar.
- **12.3 Bioaccumulatie** Geen verdere relevante informatie verkrijgbaar.
- **12.4 Mobiliteit in de bodem** Geen verdere relevante informatie verkrijgbaar.
- **Verdere ecologische informatie:**
- **Algemene informatie:**  
Waterbezwaarlijkheid (NL): Z(1) niet afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/mutageniteit/ reprotoxiciteit/bioaccumulerend vermogen/ toxiciteit of persistentie)  
Gevaar voor water klasse 1 (D) (Lijstclassificatie): gevaar voor water klein  
Niet onverdund of in grote hoeveelheden lozen in grondwater, in oppervlaktewater of in de riolering.
- **12.5 Resultaten van PBT- en zPzB-beoordeling**
- **PBT:** Niet bruikbaar.
- **zPzB:** Niet bruikbaar.
- **12.6 Andere schadelijke effecten** Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 13: Instructies voor verwijdering

- **13.1 Afvalverwerkingsmethoden**
- **Aanbeveling:** Mag niet tesamen met huisvuil gestort worden of in de riolering terecht komen.
- **Niet gereinigde verpakkingen:**
- **Aanbeveling:** Afvalverwijdering volgens overheidsbepalingen.
- **Aanbevolen reinigingsmiddel:** Water, eventueel met toevoeging van reinigingsmiddelen.

NL

(Vervolg op blz. 6)



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### RUBRIEK 14: Informatie met betrekking tot het vervoer

- |                                                                                            |                     |
|--------------------------------------------------------------------------------------------|---------------------|
| · 14.1 VN-nummer<br>· ADR, IMDG, IATA                                                      | Niet van toepassing |
| · 14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN<br>· ADR, IMDG, IATA | Niet van toepassing |
| · 14.3 Transportgevaarklasse(n)<br>· ADR, ADN, IMDG, IATA<br>· klasse                      | Niet van toepassing |
| · 14.4 Verpakkingsgroep:<br>· ADR, IMDG, IATA                                              | Niet van toepassing |
| · 14.5 Milieugevaren:                                                                      | Niet bruikbaar.     |
| · 14.6 Bijzondere voorzorgen voor de gebruiker                                             | Niet bruikbaar.     |
| · 14.7 Vervoer in bulk overeenkomstig bijlage II bij Marpol en de IBC-code                 | Niet bruikbaar.     |
| · VN "Model Regulation":                                                                   | Niet van toepassing |

### RUBRIEK 15: Regelgeving

- 15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel
- SZW-lijst van kankerverwekkende stoffen De stof is niet aanwezig.
- SZW-lijst van mutagene stoffen De stof is niet aanwezig.
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid De stof is niet aanwezig.
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling 1B
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding De stof is niet aanwezig.
- Lijst Zeer Zorgwekkende Stoffen (ZZS) De stof is aanwezig.
- Lijst van Potentieel Zeer Zorgwekkende Stoffen De stof is niet aanwezig.
- Richtlijn 2012/18/EU
- Gevaarlijke stoffen die met naam genoemd worden - BIJLAGE I De stof is niet aanwezig.
- Verordening (EG) nr. 1907/2006 BIJLAGE XVII Beperkingsvoorwaarden: 3, 30
- Nationale voorschriften:
- Gevaarklasse v. water:  
Waterbezwaarlijkheid (NL): Z(1) niet afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/mutageniteit/ reprotoxiciteit/bioaccumulerend vermogen/ toxiciteit of persistentie)
- Aanvullende voorschriften, beperkingen en verbodsverordeningen
- Zeer zorgwekkende stoffen (SVHC) volgens REACH, artikel 57  
75-12-7 formamide
- 15.2 Chemischeveiligheidsbeoordeling: Een chemische veiligheidsbeoordeling is niet uitgevoerd.

### RUBRIEK 16: Overige informatie

Deze gegevens zijn gebaseerd op de huidige stand van onze kennis. Zij beschrijven echter geen garantie van produkteigenschappen en vestigen geen contractuele rechtsbetrekking.

#### Afkortingen en acroniemen:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

(Vervolg op blz. 7)

**Veiligheidsinformatieblad**  
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*IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Repr. 1B: Voortplantingstoxiciteit – Categorie 1B*

NL

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 10.08.2020

Révision: 10.08.2020

### RUBRIQUE 1: Identification de la substance/du mélange et de la société/l'entreprise

- **1.1 Identificateur de produit**
- **Nom du produit:** formamide
- **Code du produit:** 15745, 15746, 15747
- **No CAS:**  
75-12-7
- **Numéro CE:**  
200-842-0
- **Numéro index:**  
616-052-00-8
- **1.2 Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées**  
Pas d'autres informations importantes disponibles.
- **Emploi de la substance / de la préparation** Produits chimiques pour laboratoires
- **1.3 Renseignements concernant le fournisseur de la fiche de données de sécurité**
- **Producteur/fournisseur:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Service chargé des renseignements:** Product safety department
- **1.4 Numéro d'appel d'urgence:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### RUBRIQUE 2: Identification des dangers

- **2.1 Classification de la substance ou du mélange**
- **Classification selon le règlement (CE) n° 1272/2008**



GHS08 danger pour la santé

Repr. 1B H360D Peut nuire au fœtus.

- **2.2 Éléments d'étiquetage**
- **Étiquetage selon le règlement (CE) n° 1272/2008** La substance est classifiée et étiquetée selon le règlement CLP.
- **Pictogrammes de danger**



GHS08

- **Mention d'avertissement** Danger
- **Mentions de danger**  
H360D Peut nuire au fœtus.
- **Conseils de prudence**  
P201 Se procurer les instructions spéciales avant utilisation.  
P202 Ne pas manipuler avant d'avoir lu et compris toutes les précautions de sécurité.  
P280 Porter des gants de protection/des vêtements de protection/un équipement de protection des yeux/du visage.  
P308+P313 EN CAS d'exposition prouvée ou suspectée: consulter un médecin.

(suite page 2)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 10.08.2020

Révision: 10.08.2020

**Nom du produit: formamide**

(suite de la page 1)

P405 Garder sous clef.  
 P501 Éliminer le contenu/récipient conformément à la réglementation locale/régionale/nationale/internationale.

- **2.3 Autres dangers**
- **Résultats des évaluations PBT et vPvB**
- **PBT:** Non applicable.
- **vPvB:** Non applicable.

### RUBRIQUE 3: Composition/informations sur les composants

- **3.1 Caractérisation chimique: Substances**
- **No CAS Désignation**  
75-12-7 formamide
- **Code(s) d'identification**
- **Numéro CE:** 200-842-0
- **Numéro index:** 616-052-00-8

· <b>SVHC</b>
---------------

75-12-7   formamide
---------------------

### RUBRIQUE 4: Premiers secours

- **4.1 Description des premiers secours**
- **Après inhalation:** Donner de l'air frais, consulter un médecin en cas de troubles.
- **Après contact avec la peau:** En règle générale, le produit n'irrite pas la peau.
- **Après contact avec les yeux:**  
Rincer les yeux, sous l'eau courante, pendant plusieurs minutes, en écartant bien les paupières.
- **Après ingestion:** Si les troubles persistent, consulter un médecin.
- **4.2 Principaux symptômes et effets, aigus et différés** Pas d'autres informations importantes disponibles.
- **4.3 Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires**  
Pas d'autres informations importantes disponibles.

### RUBRIQUE 5: Mesures de lutte contre l'incendie

- **5.1 Moyens d'extinction**
- **Moyens d'extinction:** Adapter les mesures d'extinction d'incendie à l'environnement.
- **5.2 Dangers particuliers résultant de la substance ou du mélange**  
Pas d'autres informations importantes disponibles.
- **5.3 Conseils aux pompiers**
- **Équipement spécial de sécurité:** Aucune mesure particulière n'est requise.

### RUBRIQUE 6: Mesures à prendre en cas de dispersion accidentelle

- **6.1 Précautions individuelles, équipement de protection et procédures d'urgence** Pas nécessaire.
- **6.2 Précautions pour la protection de l'environnement:**  
Diluer avec beaucoup d'eau.  
Ne pas rejeter dans les canalisations, dans les eaux de surface et dans les nappes d'eau souterraines.
- **6.3 Méthodes et matériel de confinement et de nettoyage:**  
Recueillir les liquides à l'aide d'un produit absorbant (sable, kieselguhr, neutralisant d'acide, liant universel, sciure).  
Évacuer les matériaux contaminés en tant que déchets conformément au point 13.

(suite page 3)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 10.08.2020

Révision: 10.08.2020

Nom du produit: *formamide*

(suite de la page 2)

### · 6.4 Référence à d'autres rubriques

Afin d'obtenir des informations pour une manipulation sûre, consulter le chapitre 7.

Afin d'obtenir des informations sur les équipements de protection personnels, consulter le chapitre 8.

Afin d'obtenir des informations sur l'élimination, consulter le chapitre 13.

## RUBRIQUE 7: Manipulation et stockage

### · 7.1 Précautions à prendre pour une manipulation sans danger

Ouvrir et manipuler les récipients avec précaution.

· **Préventions des incendies et des explosions:** Tenir des appareils de protection respiratoire prêts.

### · 7.2 Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités

· **Stockage:**

· **Exigences concernant les lieux et conteneurs de stockage:** Aucune exigence particulière.

· **Indications concernant le stockage commun:** Pas nécessaire.

· **Autres indications sur les conditions de stockage:** Néant.

· **7.3 Utilisation(s) finale(s) particulière(s)** Pas d'autres informations importantes disponibles.

## RUBRIQUE 8: Contrôles de l'exposition/protection individuelle

· **Indications complémentaires pour l'agencement des installations techniques:**

Sans autre indication, voir point 7.

### · 8.1 Paramètres de contrôle

· **Composants présentant des valeurs-seuil à surveiller par poste de travail:**

75-12-7 formamide

VLEP	Valeur à long terme: 30 mg/m <sup>3</sup> , 20 ppm
	R1B

· **Remarques supplémentaires:**

Le présent document s'appuie sur les listes en vigueur au moment de son élaboration.

### · 8.2 Contrôles de l'exposition

· **Équipement de protection individuel:**

· **Mesures générales de protection et d'hygiène:**

Tenir à l'écart des produits alimentaires, des boissons et de la nourriture pour animaux.

Retirer immédiatement les vêtements souillés ou humectés.

Se laver les mains avant les pauses et en fin de travail.

Conserver à part les vêtements de protection.

· **Protection respiratoire:** N'est pas nécessaire.

· **Protection des mains:**

Le matériau des gants doit être imperméable et résistant au produit / à la substance / à la préparation.

À cause du manque de tests, aucune recommandation pour un matériau de gants pour le produit / la préparation / le mélange de produits chimiques ne peut être donnée.

Choix du matériau des gants en fonction des temps de pénétration, du taux de perméabilité et de la dégradation.

· **Matériau des gants**

Le choix de gants appropriés ne dépend pas seulement du matériau, mais également d'autres critères de qualité qui peuvent varier d'un fabricant à l'autre.

· **Temps de pénétration du matériau des gants**

Le temps de pénétration exact est à déterminer par le fabricant des gants de protection et à respecter.

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· **Protection des yeux:** Lunettes de protection recommandées pour le transvasement.

### RUBRIQUE 9: Propriétés physiques et chimiques

#### · 9.1 Informations sur les propriétés physiques et chimiques essentielles

##### · Indications générales

##### · Aspect:

Forme:	Liquide
Couleur:	Jaunâtre
Odeur:	Inodore
Seuil olfactif:	Non déterminé.

· valeur du pH: Non déterminé.

##### · Changement d'état

Point de fusion/point de congélation:	2,5 °C
Point initial d'ébullition et intervalle d'ébullition:	210,5 °C

· Point d'éclair 175 °C

· Inflammabilité (solide, gaz): Non applicable.

· Température de décomposition: Non déterminé.

· Température d'auto-inflammabilité: Non déterminé.

· Propriétés explosives: Le produit n'est pas explosif.

##### · Limites d'explosion:

Inférieure:	Non déterminé.
Supérieure:	Non déterminé.

· Pression de vapeur à 20 °C: 0,03 hPa

· Densité à 20 °C: 1,1339 g/cm<sup>3</sup>

· Densité relative Non déterminé.

· Densité de vapeur: Non déterminé.

· Taux d'évaporation: Non déterminé.

##### · Solubilité dans/miscibilité avec

l'eau: Entièrement miscible

· Coefficient de partage: n-octanol/eau: Non déterminé.

##### · Viscosité:

Dynamique: Non déterminé.

Cinématique: Non déterminé.

· 9.2 Autres informations Pas d'autres informations importantes disponibles.

### RUBRIQUE 10: Stabilité et réactivité

· 10.1 Réactivité Pas d'autres informations importantes disponibles.

· 10.2 Stabilité chimique

· Décomposition thermique/conditions à éviter: Pas de décomposition en cas d'usage conforme.

· 10.3 Possibilité de réactions dangereuses Aucune réaction dangereuse connue.

· 10.4 Conditions à éviter Pas d'autres informations importantes disponibles.

· 10.5 Matières incompatibles: Pas d'autres informations importantes disponibles.

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· **10.6 Produits de décomposition dangereux:** Pas de produits de décomposition dangereux connus

### RUBRIQUE 11: Informations toxicologiques

- **11.1 Informations sur les effets toxicologiques**
- **Toxicité aiguë** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

· **Valeurs LD/LC50 déterminantes pour la classification:**

Oral	LD50	5.570 mg/kg (rat)
------	------	-------------------

- **Effet primaire d'irritation:**
- **Corrosion cutanée/irritation cutanée**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Lésions oculaires graves/irritation oculaire**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Sensibilisation respiratoire ou cutanée**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Effets CMR (cancérogène, mutagène et toxique pour la reproduction)**
- **Mutagénicité sur les cellules germinales**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Cancérogénicité** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Toxicité pour la reproduction**  
Peut nuire au fœtus.
- **Toxicité spécifique pour certains organes cibles - exposition unique**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Toxicité spécifique pour certains organes cibles - exposition répétée**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Danger par aspiration** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

### RUBRIQUE 12: Informations écologiques

- **12.1 Toxicité**
- **Toxicité aquatique:** Pas d'autres informations importantes disponibles.
- **12.2 Persistance et dégradabilité** Pas d'autres informations importantes disponibles.
- **12.3 Potentiel de bioaccumulation** Pas d'autres informations importantes disponibles.
- **12.4 Mobilité dans le sol** Pas d'autres informations importantes disponibles.
- **Autres indications écologiques:**
- **Indications générales:**  
Catégorie de pollution des eaux 1 (D) (classification selon liste): peu polluant  
Ne pas laisser le produit, non dilué ou en grande quantité, pénétrer la nappe phréatique, les eaux ou les canalisations.
- **12.5 Résultats des évaluations PBT et VPVB**
- **PBT:** Non applicable.
- **vPvB:** Non applicable.
- **12.6 Autres effets néfastes** Pas d'autres informations importantes disponibles.

### RUBRIQUE 13: Considérations relatives à l'élimination

- **13.1 Méthodes de traitement des déchets**
- **Recommandation:** Ne doit pas être évacué avec les ordures ménagères. Ne pas laisser pénétrer dans les égouts.

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- **Emballages non nettoyés:**
- **Recommandation:** Evacuation conformément aux prescriptions légales.
- **Produit de nettoyage recommandé:** Eau, éventuellement avec des produits de nettoyage

### RUBRIQUE 14: Informations relatives au transport

- |                                                                                                      |                        |
|------------------------------------------------------------------------------------------------------|------------------------|
| · <b>14.1 Numéro ONU</b>                                                                             |                        |
| · <b>ADR, IMDG, IATA</b>                                                                             | <i>néant</i>           |
| · <b>14.2 Désignation officielle de transport de l'ONU</b>                                           |                        |
| · <b>ADR, IMDG, IATA</b>                                                                             | <i>néant</i>           |
| · <b>14.3 Classe(s) de danger pour le transport</b>                                                  |                        |
| · <b>ADR, ADN, IMDG, IATA</b>                                                                        |                        |
| · <b>Classe</b>                                                                                      | <i>néant</i>           |
| · <b>14.4 Groupe d'emballage</b>                                                                     |                        |
| · <b>ADR, IMDG, IATA</b>                                                                             | <i>néant</i>           |
| · <b>14.5 Dangers pour l'environnement:</b>                                                          | <i>Non applicable.</i> |
| · <b>14.6 Précautions particulières à prendre par l'utilisateur</b>                                  | <i>Non applicable.</i> |
| · <b>14.7 Transport en vrac conformément à l'annexe II de la convention Marpol et au recueil IBC</b> | <i>Non applicable.</i> |
| · <b>"Règlement type" de l'ONU:</b>                                                                  | <i>néant</i>           |

### RUBRIQUE 15: Informations relatives à la réglementation

- **15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement**
  - **Directive 2012/18/UE**
  - **Substances dangereuses désignées - ANNEXE I** la substance n'est pas comprise
  - **RÈGLEMENT (CE) N° 1907/2006 ANNEXE XVII** Conditions de limitation: 3, 30
  - **Prescriptions nationales:**
  - **Autres prescriptions, restrictions et règlements d'interdiction**
- |                                                                              |
|------------------------------------------------------------------------------|
| · <b>Substances extrêmement préoccupantes (SVHC) selon REACH, article 57</b> |
| 75-12-7   <i>formamide</i>                                                   |
- **15.2 Évaluation de la sécurité chimique:** Une évaluation de la sécurité chimique n'a pas été réalisée.

### RUBRIQUE 16: Autres informations

Ces indications sont fondées sur l'état actuel de nos connaissances, mais ne constituent pas une garantie quant aux propriétés du produit et ne donnent pas lieu à un rapport juridique contractuel.

- **Acronymes et abréviations:**
- ADR: Accord européen sur le transport des marchandises dangereuses par Route
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances

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**Nom du produit: formamide***CAS: Chemical Abstracts Service (division of the American Chemical Society)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Repr. 1B: Toxicité pour la reproduction – Catégorie 1B*

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# Sicherheitsdatenblatt

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### ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

· **1.1 Produktidentifikator**

· **Handelsname:** Formamid

· **Artikelnummer:** 15745, 15746, 15747

· **CAS-Nummer:**

75-12-7

· **EG-Nummer:**

200-842-0

· **Indexnummer:**

616-052-00-8

· **1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird**

Keine weiteren relevanten Informationen verfügbar.

· **Verwendung des Stoffes / des Gemisches** Laborchemikalien

· **1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt**

· **Hersteller/Lieferant:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com

www.emsdiasum.com

Science Services GmbH

Unterhachinger Str. 75

81737 München Germany

Tel: +49(0)89 18 93 668-0

safety@scienceservices.de

Deutschland: +49 (0)89 19240, 24h Giftnotruf Munchen, www.toxinfo.org

Osterreich: +43 1406 43 43, Gesundheit Osterreich GmbH, 24 h

· **Auskunftgebender Bereich:** Product safety department

· **1.4 Notrufnummer:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### ABSCHNITT 2: Mögliche Gefahren

· **2.1 Einstufung des Stoffs oder Gemischs**

· **Einstufung gemäß Verordnung (EG) Nr. 1272/2008**



GHS08 Gesundheitsgefahr

Repr. 1B H360D Kann das Kind im Mutterleib schädigen.

· **2.2 Kennzeichnungselemente**

· **Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008**

Der Stoff ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.

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**· Gefahrenpiktogramme**

GHS08

**· Signalwort Gefahr****· Gefahrenhinweise***H360D Kann das Kind im Mutterleib schädigen.***· Sicherheitshinweise***P201 Vor Gebrauch besondere Anweisungen einholen.**P202 Vor Gebrauch alle Sicherheitshinweise lesen und verstehen.**P280 Schutzhandschuhe/Schutzkleidung/Augenschutz/Gesichtsschutz tragen.**P308+P313 BEI Exposition oder falls betroffen: Ärztlichen Rat einholen/ärztliche Hilfe hinzuziehen.**P405 Unter Verschluss aufbewahren.**P501 Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen / internationalen Vorschriften.***· Zusätzliche Angaben:***Nur für gewerbliche Anwender.***· 2.3 Sonstige Gefahren****· Ergebnisse der PBT- und vPvB-Beurteilung****· PBT:** Nicht anwendbar.**· vPvB:** Nicht anwendbar.

### ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

**· 3.1 Chemische Charakterisierung: Stoffe****· CAS-Nr. Bezeichnung***75-12-7 Formamid***· Identifikationsnummer(n)****· EG-Nummer:** 200-842-0**· Indexnummer:** 616-052-00-8**· SVHC**

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### ABSCHNITT 4: Erste-Hilfe-Maßnahmen

**· 4.1 Beschreibung der Erste-Hilfe-Maßnahmen****· Nach Einatmen:** Frischluftzufuhr, bei Beschwerden Arzt aufsuchen.**· Nach Hautkontakt:** Im allgemeinen ist das Produkt nicht hautreizend.**· Nach Augenkontakt:** Augen bei geöffnetem Lidspalt mehrere Minuten mit fließendem Wasser spülen.**· Nach Verschlucken:** Bei anhaltenden Beschwerden Arzt konsultieren.**· 4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen***Keine weiteren relevanten Informationen verfügbar.***· 4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung***Keine weiteren relevanten Informationen verfügbar.*

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### ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

- **5.1 Löschmittel**
- **Geeignete Löschmittel:** Feuerlöschmaßnahmen auf die Umgebung abstimmen.
- **5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren**  
Keine weiteren relevanten Informationen verfügbar.
- **5.3 Hinweise für die Brandbekämpfung**
- **Besondere Schutzausrüstung:** Keine besonderen Maßnahmen erforderlich.

### ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

- **6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**  
Nicht erforderlich.
- **6.2 Umweltschutzmaßnahmen:**  
Mit viel Wasser verdünnen.  
Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.
- **6.3 Methoden und Material für Rückhaltung und Reinigung:**  
Mit flüssigkeitsbindendem Material (Sand, Kieselgur, Säurebinder, Universalbinder, Sägemehl) aufnehmen.  
Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen.
- **6.4 Verweis auf andere Abschnitte**  
Informationen zur sicheren Handhabung siehe Abschnitt 7.  
Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.  
Informationen zur Entsorgung siehe Abschnitt 13.

### ABSCHNITT 7: Handhabung und Lagerung

- **7.1 Schutzmaßnahmen zur sicheren Handhabung Behälter mit Vorsicht öffnen und handhaben.**
- **Hinweise zum Brand- und Explosionsschutz:** Atemschutzgeräte bereithalten.
- **7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten**
- **Lagerung:**
- **Anforderung an Lagerräume und Behälter:** Keine besonderen Anforderungen.
- **Zusammenlagerungshinweise:** Nicht erforderlich.
- **Weitere Angaben zu den Lagerbedingungen:** Keine.
- **Lagerklasse:**
- **Klassifizierung nach Betriebsicherheitsverordnung (BetrSichV):** -
- **7.3 Spezifische Endanwendungen** Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

- **Zusätzliche Hinweise zur Gestaltung technischer Anlagen:** Keine weiteren Angaben, siehe Abschnitt 7.

#### · 8.1 Zu überwachende Parameter

- **Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:**

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MAK vgl.Abschn.IIb

- **Zusätzliche Hinweise:** Als Grundlage dienen die bei der Erstellung gültigen Listen.

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- **8.2 Begrenzung und Überwachung der Exposition**
- **Persönliche Schutzausrüstung:**
- **Allgemeine Schutz- und Hygienemaßnahmen:**  
*Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.  
 Beschmutzte, getränkte Kleidung sofort ausziehen.  
 Vor den Pausen und bei Arbeitsende Hände waschen.  
 Getrennte Aufbewahrung der Schutzkleidung.*
- **Atemschutz:** Nicht erforderlich.
- **Handschutz:**  
*Das Handschuhmaterial muss undurchlässig und beständig gegen das Produkt / den Stoff / die Zubereitung sein.  
 Aufgrund fehlender Tests kann keine Empfehlung zum Handschuhmaterial für das Produkt / die Zubereitung / das Chemikaliengemisch abgegeben werden.  
 Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.*
- **Handschuhmaterial**  
*Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich.*
- **Durchdringungszeit des Handschuhmaterials**  
*Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.*
- **Augenschutz:** Beim Umfüllen Schutzbrille empfehlenswert.

### ABSCHNITT 9: Physikalische und chemische Eigenschaften

- **9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften**
- **Allgemeine Angaben**
- **Aussehen:**

Form:	Flüssig
Farbe:	Gelblich
- Geruch: Geruchlos
- Geruchsschwelle: Nicht bestimmt.
- **pH-Wert:** Nicht bestimmt.
- **Zustandsänderung**

Schmelzpunkt/Gefrierpunkt:	2,5 °C
Siedebeginn und Siedebereich:	210,5 °C
- **Flammpunkt:** 175 °C
- **Entzündbarkeit (fest, gasförmig):** Nicht anwendbar.
- **Zersetzungstemperatur:** Nicht bestimmt.
- **Selbstentzündungstemperatur:** Nicht bestimmt.
- **Explosive Eigenschaften:** Das Produkt ist nicht explosionsgefährlich.
- **Explosionsgrenzen:**

Untere:	Nicht bestimmt.
Obere:	Nicht bestimmt.
- **Dampfdruck bei 20 °C:** 0,03 hPa
- **Dichte bei 20 °C:** 1,1339 g/cm<sup>3</sup>
- **Relative Dichte:** Nicht bestimmt.
- **Dampfdichte:** Nicht bestimmt.

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- |                                                    |                                                    |
|----------------------------------------------------|----------------------------------------------------|
| · <b>Verdampfungsgeschwindigkeit</b>               | Nicht bestimmt.                                    |
| · <b>Löslichkeit in / Mischbarkeit mit Wasser:</b> | Vollständig mischbar.                              |
| · <b>Verteilungskoeffizient: n-Octanol/Wasser:</b> | Nicht bestimmt.                                    |
| · <b>Viskosität:</b>                               |                                                    |
| <b>Dynamisch:</b>                                  | Nicht bestimmt.                                    |
| <b>Kinematisch:</b>                                | Nicht bestimmt.                                    |
| · <b>9.2 Sonstige Angaben</b>                      | Keine weiteren relevanten Informationen verfügbar. |

### ABSCHNITT 10: Stabilität und Reaktivität

- **10.1 Reaktivität** Keine weiteren relevanten Informationen verfügbar.
- **10.2 Chemische Stabilität**
- **Thermische Zersetzung / zu vermeidende Bedingungen:**  
Keine Zersetzung bei bestimmungsgemäßer Verwendung.
- **10.3 Möglichkeit gefährlicher Reaktionen** Keine gefährlichen Reaktionen bekannt.
- **10.4 Zu vermeidende Bedingungen** Keine weiteren relevanten Informationen verfügbar.
- **10.5 Unverträgliche Materialien:** Keine weiteren relevanten Informationen verfügbar.
- **10.6 Gefährliche Zersetzungsprodukte:** Keine gefährlichen Zersetzungsprodukte bekannt.

### ABSCHNITT 11: Toxikologische Angaben

- **11.1 Angaben zu toxikologischen Wirkungen**
- **Akute Toxizität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

· **Einstufungsrelevante LD/LC50-Werte:**

Oral	LD50	5.570 mg/kg (rat)
------	------	-------------------

- **Primäre Reizwirkung:**
- **Ätz-/Reizwirkung auf die Haut** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Schwere Augenschädigung/-reizung** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Sensibilisierung der Atemwege/Haut** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)**
- **Keimzell-Mutagenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Karzinogenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Reproduktionstoxizität**  
Kann das Kind im Mutterleib schädigen.
- **Spezifische Zielorgan-Toxizität bei einmaliger Exposition**  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Spezifische Zielorgan-Toxizität bei wiederholter Exposition**  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Aspirationsgefahr** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

### ABSCHNITT 12: Umweltbezogene Angaben

- **12.1 Toxizität**
- **Aquatische Toxizität:** Keine weiteren relevanten Informationen verfügbar.
- **12.2 Persistenz und Abbaubarkeit** Keine weiteren relevanten Informationen verfügbar.
- **12.3 Bioakkumulationspotenzial** Keine weiteren relevanten Informationen verfügbar.
- **12.4 Mobilität im Boden** Keine weiteren relevanten Informationen verfügbar.

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- **Weitere ökologische Hinweise:**
- **Allgemeine Hinweise:**  
Wassergefährdungsklasse 1 (Listeneinstufung): schwach wassergefährdend  
Nicht unverdünnt bzw. in größeren Mengen in das Grundwasser, in Gewässer oder in die Kanalisation gelangen lassen.
- **12.5 Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.
- **vPvB:** Nicht anwendbar.
- **12.6 Andere schädliche Wirkungen** Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 13: Hinweise zur Entsorgung

- **13.1 Verfahren der Abfallbehandlung**
- **Empfehlung:** Darf nicht zusammen mit Hausmüll entsorgt werden. Nicht in die Kanalisation gelangen lassen.
- **Ungereinigte Verpackungen:**
- **Empfehlung:** Entsorgung gemäß den behördlichen Vorschriften.
- **Empfohlenes Reinigungsmittel:** Wasser, gegebenenfalls mit Zusatz von Reinigungsmitteln.

### ABSCHNITT 14: Angaben zum Transport

- |                                                                                                 |                  |
|-------------------------------------------------------------------------------------------------|------------------|
| · <b>14.1 UN-Nummer</b>                                                                         |                  |
| · <b>ADR, IMDG, IATA</b>                                                                        | entfällt         |
| · <b>14.2 Ordnungsgemäße UN-Versandbezeichnung</b>                                              |                  |
| · <b>ADR, IMDG, IATA</b>                                                                        | entfällt         |
| · <b>14.3 Transportgefahrenklassen</b>                                                          |                  |
| · <b>ADR, ADN, IMDG, IATA</b>                                                                   |                  |
| · <b>Klasse</b>                                                                                 | entfällt         |
| · <b>14.4 Verpackungsgruppe</b>                                                                 |                  |
| · <b>ADR, IMDG, IATA</b>                                                                        | entfällt         |
| · <b>14.5 Umweltgefahren:</b>                                                                   | Nicht anwendbar. |
| · <b>14.6 Besondere Vorsichtsmaßnahmen für den Verwender</b>                                    | Nicht anwendbar. |
| · <b>14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code</b> | Nicht anwendbar. |
| · <b>UN "Model Regulation":</b>                                                                 | entfällt         |

### ABSCHNITT 15: Rechtsvorschriften

- **15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch**
- **Richtlinie 2012/18/EU**
- **Namentlich aufgeführte gefährliche Stoffe - ANHANG I** Der Stoff ist nicht enthalten.
- **VERORDNUNG (EG) Nr. 1907/2006 ANHANG XVII** Beschränkungsbedingungen: 3, 30

(Fortsetzung auf Seite 7)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 10.08.2020

überarbeitet am: 10.08.2020

**Handelsname: Formamid**

(Fortsetzung von Seite 6)

· **Nationale Vorschriften:**· **Technische Anleitung Luft:**

Klasse	Anteil in %
NK	100,0

· **Wassergefährdungsklasse: WGK 1 (Listeneinstufung):** schwach wassergefährdend.· **Sonstige Vorschriften, Beschränkungen und Verbotsverordnungen**

Das Produkt unterliegt der Anlage 2 der Chemikalienverbotsverordnung (ChemVerbotsV) - Anforderungen in Bezug auf die Abgabe

· **Besonders besorgniserregende Stoffe (SVHC) gemäß REACH, Artikel 57**

75-12-7	Formamid
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· **15.2 Stoffsicherheitsbeurteilung:** Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.

### ABSCHNITT 16: Sonstige Angaben

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

· **Abkürzungen und Akronyme:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Repr. 1B: Reproduktionstoxizität – Kategorie 1B



**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 10.08.2020

Revisione: 10.08.2020

### SEZIONE 1: Identificazione della sostanza o della miscela e della società/impresa

· **1.1 Identificatore del prodotto**

· **Denominazione commerciale:** formamide

· **Articolo numero:** 15745, 15746, 15747

· **Numero CAS:**

75-12-7

· **Numeri CE:**

200-842-0

· **Numero indice:**

616-052-00-8

· **1.2 Usi identificati pertinenti della sostanza o della miscela e usi sconsigliati**

Non sono disponibili altre informazioni.

· **Utilizzazione della Sostanza / del Preparato** Prodotti chimici per laboratorio

· **1.3 Informazioni sul fornitore della scheda di dati di sicurezza**

· **Produttore/fornitore:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com

www.emsdiasum.com

Societa Italiana Chimici

Via Rio Nell Ellba 140

00138 Rome, Italy

Tel: 39 06 8800211

Fax: 39 30 06 8815313

Web: www.sichim.com

· **Informazioni fornite da:** Product safety department

· **1.4 Numero telefonico di emergenza:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SEZIONE 2: Identificazione dei pericoli

· **2.1 Classificazione della sostanza o della miscela**

· **Classificazione secondo il regolamento (CE) n. 1272/2008**



GHS08 pericolo per la salute

Repr. 1B H360D Può nuocere al feto.

· **2.2 Elementi dell'etichetta**

· **Etichettatura secondo il regolamento (CE) n. 1272/2008**

La sostanza è classificata ed etichettata conformemente al regolamento CLP.

· **Pittogrammi di pericolo**



GHS08

· **Avvertenza Pericolo**

(continua a pagina 2)

**Scheda di dati di sicurezza**  
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**Denominazione commerciale: formamide**

(Segue da pagina 1)

- **Indicazioni di pericolo**  
H360D Può nuocere al feto.
- **Consigli di prudenza**
  - P201 Procurarsi istruzioni specifiche prima dell'uso.
  - P202 Non manipolare prima di avere letto e compreso tutte le avvertenze.
  - P280 Indossare guanti/indumenti protettivi/Proteggere gli occhi/il viso.
  - P308+P313 IN CASO di esposizione o di possibile esposizione, consultare un medico.
  - P405 Conservare sotto chiave.
  - P501 Smaltire il prodotto/recipiente in conformità con le disposizioni locali / regionali / nazionali / internazionali.
- **2.3 Altri pericoli**
- **Risultati della valutazione PBT e vPvB**
- **PBT:** Non applicabile.
- **vPvB:** Non applicabile.

### SEZIONE 3: Composizione/informazioni sugli ingredienti

- **3.1 Caratteristiche chimiche: Sostanze**
- **Numero CAS**  
75-12-7 formamide
- **Numeroli di identificazione**
- **Numeri CE:** 200-842-0
- **Numero indice:** 616-052-00-8

- **SVHC**

75-12-7 formamide

### SEZIONE 4: Misure di primo soccorso

- **4.1 Descrizione delle misure di primo soccorso**
- **Inalazione:** Portare in zona ben areata, in caso di disturbi consultare il medico.
- **Contatto con la pelle:** Generalmente il prodotto non è irritante per la pelle.
- **Contatto con gli occhi:** Lavare con acqua corrente per alcuni minuti tenendo le palpebre ben aperte.
- **Ingestione:** Se il dolore persiste consultare il medico.
- **4.2 Principali sintomi ed effetti, sia acuti che ritardati** Non sono disponibili altre informazioni.
- **4.3 Indicazione dell'eventuale necessità di consultare immediatamente un medico e di trattamenti speciali**  
Non sono disponibili altre informazioni.

### SEZIONE 5: Misure antincendio

- **5.1 Mezzi di estinzione**
- **Mezzi di estinzione idonei:** Adottare provvedimenti antiincendio nei dintorni della zona colpita.
- **5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela** Non sono disponibili altre informazioni.
- **5.3 Raccomandazioni per gli addetti all'estinzione degli incendi**
- **Mezzi protettivi specifici:** Non sono richiesti provvedimenti particolari.

### SEZIONE 6: Misure in caso di rilascio accidentale

- **6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza** Non necessario.
- **6.2 Precauzioni ambientali:**  
Diluire abbondantemente con acqua.

(continua a pagina 3)

**Scheda di dati di sicurezza**  
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**Denominazione commerciale:** formamide

(Segue da pagina 2)

*Impedire infiltrazioni nella fognatura/nelle acque superficiali/nelle acque freatiche.*

· **6.3 Metodi e materiali per il contenimento e per la bonifica:**

*Raccogliere il liquido con materiale assorbente (sabbia, tripoli, legante di acidi, legante universale, segatura).*

*Smaltimento del materiale contaminato conformemente al punto 13.*

· **6.4 Riferimento ad altre sezioni**

*Per informazioni relative ad un manipolazione sicura, vedere capitolo 7.*

*Per informazioni relative all'equipaggiamento protettivo ad uso personale vedere Capitolo 8.*

*Per informazioni relative allo smaltimento vedere Capitolo 13.*

### SEZIONE 7: Manipolazione e immagazzinamento

· **7.1 Precauzioni per la manipolazione sicura** *Aprire e manipolare i recipienti con cautela.*

· **Indicazioni in caso di incendio ed esplosione:** *Tener pronto il respiratore.*

· **7.2 Condizioni per lo stoccaggio sicuro, comprese eventuali incompatibilità**

· **Stoccaggio:**

· **Requisiti dei magazzini e dei recipienti:** *Non sono richiesti requisiti particolari.*

· **Indicazioni sullo stoccaggio misto:** *Non necessario.*

· **Ulteriori indicazioni relative alle condizioni di immagazzinamento:** *Nessuno.*

· **7.3 Usi finali particolari** *Non sono disponibili altre informazioni.*

### SEZIONE 8: Controllo dell'esposizione/protezione individuale

· **Ulteriori indicazioni sulla struttura di impianti tecnici:** *Nessun dato ulteriore, vedere punto 7.*

· **8.1 Parametri di controllo**

· **Componenti i cui valori limite devono essere tenuti sotto controllo negli ambienti di lavoro:**

**75-12-7 formamide**

TWA Valore a lungo termine: 18,4 mg/m<sup>3</sup>, 10 ppm

Cute

· **Ulteriori indicazioni:** *Le liste valide alla data di compilazione sono state usate come base.*

· **8.2 Controlli dell'esposizione**

· **Mezzi protettivi individuali:**

· **Norme generali protettive e di igiene del lavoro:**

*Tenere lontano da cibo, bevande e foraggi.*

*Togliere immediatamente gli abiti contaminati.*

*Lavarsi le mani prima dell'intervallo o a lavoro terminato.*

*Custodire separatamente l'equipaggiamento protettivo.*

· **Maschera protettiva:** *Non necessario.*

· **Guanti protettivi:**

*Il materiale dei guanti deve essere impermeabile e stabile contro il prodotto/ la sostanza/ la formulazione.*

*A causa della mancanza di tests non può essere consigliato alcun tipo di materiale per i guanti con cui manipolare il prodotto / la formulazione / la miscela di sostanze chimiche.*

*Scelta del materiale dei guanti in considerazione dei tempi di passaggio, dei tassi di permeazione e della degradazione.*

· **Materiale dei guanti**

*La scelta dei guanti adatti non dipende soltanto dal materiale bensì anche da altre caratteristiche di qualità variabili da un produttore a un altro.*

· **Tempo di permeazione del materiale dei guanti**

*Richiedere dal fornitore dei guanti il tempo di passaggio preciso il quale deve essere rispettato.*

(continua a pagina 4)

**Scheda di dati di sicurezza**  
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· **Occhiali protettivi:** Si consiglia l'uso di occhiali protettivi durante il travaso.

### SEZIONE 9: Proprietà fisiche e chimiche

#### · 9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali

##### · Indicazioni generali

##### · Aspetto:

**Forma:** Liquido

**Colore:** Giallognolo

· **Odore:** Inodore

· **Soglia olfattiva:** Non definito.

· **valori di pH:** Non definito.

##### · Cambiamento di stato

**Punto di fusione/punto di congelamento:** 2,5 °C

**Punto di ebollizione iniziale e intervallo di ebollizione:** 210,5 °C

· **Punto di infiammabilità:** 175 °C

· **Infiammabilità (solidi, gas):** Non applicabile.

· **Temperatura di decomposizione:** Non definito.

· **Temperatura di autoaccensione:** Non definito.

· **Proprietà esplosive:** Prodotto non esplosivo.

##### · Limiti di infiammabilità:

**Inferiore:** Non definito.

**Superiore:** Non definito.

· **Tensione di vapore a 20 °C:** 0,03 hPa

· **Densità a 20 °C:** 1,1339 g/cm<sup>3</sup>

· **Densità relativa:** Non definito.

· **Densità di vapore:** Non definito.

· **Velocità di evaporazione:** Non definito.

· **Solubilità in/Miscibilità con acqua:**

Completamente miscibile.

· **Coefficiente di ripartizione: n-ottanolo/acqua:** Non definito.

##### · Viscosità:

**Dinamica:** Non definito.

**Cinematica:** Non definito.

· **9.2 Altre informazioni:** Non sono disponibili altre informazioni.

### SEZIONE 10: Stabilità e reattività

· **10.1 Reattività:** Non sono disponibili altre informazioni.

· **10.2 Stabilità chimica**

· **Decomposizione termica/ condizioni da evitare:** Il prodotto non si decompone se utilizzato secondo le norme.

· **10.3 Possibilità di reazioni pericolose:** Non sono note reazioni pericolose.

· **10.4 Condizioni da evitare:** Non sono disponibili altre informazioni.

· **10.5 Materiali incompatibili:** Non sono disponibili altre informazioni.

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**Scheda di dati di sicurezza**  
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· **10.6 Prodotti di decomposizione pericolosi:** Non sono noti prodotti di decomposizione pericolosi.

### SEZIONE 11: Informazioni tossicologiche

- **11.1 Informazioni sugli effetti tossicologici**
- **Tossicità acuta** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

· **Valori LD/LC50 rilevanti per la classificazione:**

Orale	LD50	5.570 mg/kg (rat)
-------	------	-------------------

- **Irritabilità primaria:**
- **Corrosione/irritazione cutanea** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Lesioni oculari gravi/irritazioni oculari gravi**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Sensibilizzazione respiratoria o cutanea**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Effetti CMR (cancerogenicità, mutagenicità e tossicità per la riproduzione)**
- **Mutagenicità delle cellule germinali**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Cancerogenicità** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Tossicità per la riproduzione**  
Può nuocere al feto.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione singola**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione ripetuta**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Pericolo in caso di aspirazione** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

### SEZIONE 12: Informazioni ecologiche

- **12.1 Tossicità**
- **Tossicità acquatica:** Non sono disponibili altre informazioni.
- **12.2 Persistenza e degradabilità** Non sono disponibili altre informazioni.
- **12.3 Potenziale di bioaccumulo** Non sono disponibili altre informazioni.
- **12.4 Mobilità nel suolo** Non sono disponibili altre informazioni.
- **Ulteriori indicazioni in materia ambientale:**
- **Ulteriori indicazioni:**  
Pericolosità per le acque classe 1 (D) (Classif. secondo le liste): poco pericoloso  
Non immettere nelle acque freatiche, nei corsi d'acqua o nelle fognature non diluito o in grandi quantità.
- **12.5 Risultati della valutazione PBT e vPvB**
- **PBT:** Non applicabile.
- **vPvB:** Non applicabile.
- **12.6 Altri effetti avversi** Non sono disponibili altre informazioni.

### SEZIONE 13: Considerazioni sullo smaltimento

- **13.1 Metodi di trattamento dei rifiuti**
- **Consigli:** Non smaltire il prodotto insieme ai rifiuti domestici Non immettere nelle fognature.
- **Imballaggi non puliti:**
- **Consigli:** Smaltimento in conformità con le disposizioni amministrative.

(continua a pagina 6)

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**Scheda di dati di sicurezza**  
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· **Detergente consigliato:** Acqua eventualmente con l'aggiunta di detersivi.

### SEZIONE 14: Informazioni sul trasporto

- |                                                                                       |                  |
|---------------------------------------------------------------------------------------|------------------|
| · 14.1 Numero ONU<br>· ADR, IMDG, IATA                                                | non applicabile  |
| · 14.2 Nome di spedizione dell'ONU<br>· ADR, IMDG, IATA                               | non applicabile  |
| · 14.3 Classi di pericolo connesso al trasporto<br>· ADR, ADN, IMDG, IATA<br>· Classe | non applicabile  |
| · 14.4 Gruppo di imballaggio<br>· ADR, IMDG, IATA                                     | non applicabile  |
| · 14.5 Pericoli per l'ambiente:                                                       | Non applicabile. |
| · 14.6 Precauzioni speciali per gli utilizzatori                                      | Non applicabile. |
| · 14.7 Trasporto di rinfuse secondo l'allegato II di MARPOL ed il codice IBC          | Non applicabile. |
| · UN "Model Regulation":                                                              | non applicabile  |

### SEZIONE 15: Informazioni sulla regolamentazione

- 15.1 Disposizioni legislative e regolamentari su salute, sicurezza e ambiente specifiche per la sostanza o la miscela
- Direttiva 2012/18/UE
  - Sostanze pericolose specificate - ALLEGATO I La sostanza non è contenuta
  - REGOLAMENTO (CE) n. 1907/2006 ALLEGATO XVII Restrizioni: 3, 30

· Disposizioni nazionali:

· Istruzione tecnica aria:

Classe	quota in %
NC	100,0

· Ulteriori disposizioni, limitazioni e decreti proibitivi

· Sostanze estremamente preoccupanti (SVHC) ai sensi della regolamento REACH, articolo 57

75-12-7	formamide
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· 15.2 Valutazione della sicurezza chimica: Una valutazione della sicurezza chimica non è stata effettuata.

### SEZIONE 16: Altre informazioni

I dati sono riportati sulla base delle nostre conoscenze attuali, non rappresentano tuttavia alcuna garanzia delle caratteristiche del prodotto e non motivano alcun rapporto giuridico contrattuale.

· **Abbreviazioni e acronimi:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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**Scheda di dati di sicurezza**  
**ai sensi del regolamento 1907/2006/CE, Articolo 31**

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*GHS: Globally Harmonised System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Repr. 1B: Tossicità per la riproduzione – Categoria 1B*

IT

# 물질안전보건자료

## GHS에 따라라따

인쇄일자: 2020.08.10

개정: 2020.08.10

### 1 화학제품과 회사에 관한 정보

**제품제품제명**

- **제품명:** Formamide, Ultra High Purity
- **상품번호:** 15745, 15746, 15747
- **번호번호번호**  
75-12-7
- **EC 의번호:**  
200-842-0

**색인색인번호:**

616-052-00-8

해당 해당 물질이나 혼합물과 관련된 위험도 및 사용금지용도 추가적인 정보가 존재하지 않습니다.

- **제품의 권고 용도와 사용 제한 사항** 실화 학품
- **안전데이터표(Safety Data Sheet)내 공급업체 관련 정보**
- **제조사/수입자/유통업체 정보**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com

Samchang Commercial Co., Ltd.  
Yeo Eui Do  
PO Box 1110  
Seoul, Korea  
Tel: 82 2 703 3040  
Fax: 82 2 717 3298

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Daedok Science, Co. Ltd.  
34141 E10 Korea Advanced Institute of Science  
Guseong-Dong, Yuseong-gu, Daejeon,  
Korea  
Phone: 82 42 710 2091  
Fax: 82 42 367 0005  
Website: www.labsmro.com

- **추가적인 정보** 제품 안전 부서
- **비상연락 전화번호:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### 2 유해성·위험성

- **순물질 또는 혼합물** 분류분류



건강에 위험

생식독성 - 구분 1B H360 태아 또는 생식능력에 손상을 일으킬 수 있음

- **라벨표가요소**
- **라벨라벨요소**

본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

(2 쪽에 계속)





# 물질안전보건자료 GHS에 따라라다

인쇄일자: 2020.08.10

개정: 2020.08.10

**제품명:** Formamide, Ultra High Purity

(2 쪽부터 계속)

## 6 누출 사고 시 대처방법

· 개인적 예방조치, 보호장비 및 응급 처치 절차 필요 없음.

### 환경 환경 관련 예방 조치:

- 많은 물로 희석 시킨다.
- 하수도망/해수면위의물/지하수로도달하지않게한다.

### 밀폐 밀폐 용기 및 화학 용기 폐기 소제 소제

- 액체가 혼합된 물질 (모래, 규조토, 산성 결합 물, 일반 결합 물, 톱밥)에 흡입되도록 한다.
- 항목 13에 따라 오염된 물질을 쓰레기로 처분한다.

### 식수 식수 취수 참조

- 안전 관리에 대한 정보는 제7 장 을 참고하시오.
- 개인 보호 장 비에 대한 정보는 제8 장 을 참고하시오.
- 쓰레기 처리에 대한 정보는 제13 장 을 참고하시오.

## 7 취급 및 저장방법

### 취급 취급 취급

안전안전취급을 위한 예방 조치 조심스럽게용기를 개봉하거나취급한다.  
 화재화재취급을 위한 예방 대책에 관한정보는항상보호장비를항상비치한다.

### · 혼합 위험성 혼합 위험성 조건 조건

### 보관 보관 보관

- 안전장 저장방법 특별한 요구사항이 없음.
- 하중 중량 보관 및 적재에 대한 특별한 요구사항 없음
- 보관 조건에 관한 추가 정보 없음
- 구체적 최종 최종자 추가적인 정보가 존재하지 않습니다.

## 8 노출방지 및 개인보호구

- 첨단시설 디자입에 대한 추가정보: 더 이상 의 자료는 없음. 항 목 7 을 참고하시오.

### 통제 통제 통제 변수

- 화학물질의 노출기준, 생물학적 노출기준 등:

75-12-7 Formamide, Ultra High Purity

TLV (KR) 장기간의값: 10 ppm  
 생식독성 1B, Skin

REL (US) 장기간의값: 15 mg/m<sup>3</sup>, 10 ppm  
 Skin

TLV (US) 장기간의값: (18) NIC-1.9 mg/m<sup>3</sup>, (10) NIC-1 ppm  
 Skin, NIC-A3

- 추가정보정보조 할 당시에 유효 한 목록을 기초로 사용했다.

### 노출 노출 통제 통제

### 개인 개인 보호구

### · 일반적 보호 조치 및 위생 조치:

- 식료품, 음료수와 사료로부터 멀리 떨어져 두어 놓는다.
- 더러워지거나 음료수가 묻은 옷은 즉시 탈의한다.
- 휴식 전 이나 작업이 끝날때마다 손을 씻는다.
- 방호복은 따로 보관한다.

### · 호흡기 보호 보호 없음.

### 보충 보호 보호

장갑재질은제품 / 원료 / 조제를투과시키지않아야하고, 내구성이있어야한다.

(4 쪽에 계속)

# 물질안전보건자료 GHS에 따라라따

인쇄일자: 2020.08.10

개정: 2020.08.10

**제품명: Formamide, Ultra High Purity**

(3 쪽부터계속)

테스트를 하지 않았기 때문에 제품 / 조제 / 화학 혼합 물에 적합한 장갑재질에 대한 추천이 없다.  
투과 시간, 침투율과 저하를 고려해서 장갑 재료를 선택한다.

**· 장갑의재로**

적합한장갑의선정은재질차이뿐만아니라품질기준의차이도고려하여이루어져야하고제조업자에따라서도다르게선정되어야한다.

· 장갑재로의투과시간 정확한관통시간은보호장갑제조자에의하여인지되고, 준수되어야한다.

보호장갑의투과율과저하율에따라추천할만한보호장갑.

## 9 물리화학적 특성

기본 물리화학적 특성에 대한 정보

**· 일반정보**

외형외형외형

· 물리상태상태 액체의

· 색: 누런빛을띤

· 냄새냄새냄새 무취의

· 후각역치 알맞지않다.

· pH: 알맞지않다.

**· 상태변화**

· 녹는점/어는점: 2.5 °C

· 초기초기끓는점과 끓는점범위범위 210.5 °C

· 인화점: 175 °C

· 인화성고체고체기체 해당사항 없음.

· 분해온도 알맞지않다.

· 자기점화: 알맞지않다.

· 폭발위험: 이제품은폭발위험성이없다

· 인화안정성안정성폭발 위험성상한하한

· 아래로: 알맞지않다.

· 위로위로위로 알맞지않다.

· 증기압 의경우 20 °C: 0.03 hPa

· 밀도밀도 밀도경우 20 °C: 1.1339 g/cm<sup>3</sup>

· 비중비중 비중 알맞지않다.

· 증기밀도: 알맞지않다.

· 증발증발증발 속도 알맞지않다.

**· 용해도:**

· 물: 완전히혼합할수있는

· n 옥탄올/물 분배계수: 알맞지않다.

· 점도점도점도

· 역학성: 알맞지않다.

· 동점성: 알맞지않다.

· 기타정보정보 추가적인 정보가 존재하지 않습니다.

## 10 안정성 및 반응성

· 반응성 추가적인 정보가 존재하지 않습니다.

(5 쪽에계속)

# 물질안전보건자료 GHS에 따라라다

인쇄일자: 2020.08.10

개정: 2020.08.10

**제품명:** Formamide, Ultra High Purity

(4 쪽부터 계속)

- **화학적 안정성**
- **화학적 안정성 및 유해 반응의 가능성 / 피해 야할 조건 조건**에 따라 사용 할 경우 해체는 없다
- **유해 반응 가능성** 위험한 반응으로는 알려지지 않았다.
- **피해 야할 조건 조건** 추가적인 정보가 존재 하지 않습니다.
- **혼합 혼합물 혼합물** 추가적인 정보가 존재 하지 않습니다.
- **유해 분해 물질:** 위험성 있는 분해 물 들 은 알려 지지 않았다.

## 11 독성에 관한 정보

· **독성학적 영향에 대한 정보**  
급성 독성 독성 독성

· **LD/LC50-수 체에 따른 분류**

구강의 LD50	5,570 mg/kg (rat)
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· **일차적 자극 효과**

피부 피부 자극 또는 자극 성: 무 자극

심한 심한 자극 또는 자극 성: 무 자극.

· **감각 화:** 민감한 영향 이 없는 것으로 알려 지었다.

다음 다음 중 중의 잠재적 인 효과에 대한 정보

· **크로 모 소 모 유 발, 유 연 번 이 성 그 러 고 생 생 독 성**

생식 독성 - 구분 1B

## 12 환경에 미치는 영향

독성 독성 독성

· **수생 독성:** 추가적인 정보가 존재 하지 않습니다.

· **지속성 및 분해성** 추가적인 정보가 존재 하지 않습니다.

· **환 경 시 스템 에 서 의 행 동:**

· **생물 농 축 잠 재 성** 추가적인 정보가 존재 하지 않습니다.

· **토 양 내 이 동 성** 추가적인 정보가 존재 하지 않습니다.

· **추가적인 생 태 학 정보**

일반 열 려 기 특 징

수질 오염 등급 1 (목록 분류): 약하게 수질 오염 이 된

희석 시 키 지 않 은 채 대 량 으 로 지 하 수 나, 하 천 으 로 그 리 고 하 수 도 망 에 도 달 하 지 않 게 한 다.

· **PBT(잔류성, 생물 농 축 성, 물 질 분 쪼 림) 및 vPvB(고 잔류성, 고 생물 농 축 성, 물 질 분 쪼 림)에 관 한 결 과**

· **PBT(잔류성, 생물 농 축 성, 물 질 분 쪼 림)에 관 한 결 과** 당사 항 없 음.

· **vPvB(고 잔류성, 고 생물 농 축 성, 물 질 분 쪼 림)에 관 한 결 과** 당사 항 없 음.

기 타 기 타 부 작 용 추가적인 정보가 존재 하지 않습니다.

## 13 폐기시 주의사항

· **폐 기 물 처 리 방 법**

권 고 권 고 관 련 하 는 쓰레 기 와 함 께 처 리 되 어 서 는 안 된 다. 하 수 도 망 으 로 유 입 되 서 는 안 된 다.

· **비 위 생 장 포 장 포 장**

권 고 권 고 관 련 하 는 지 침 에 입 각 한 쓰레 기 처 리.

· **추 천 세 정 제:** 경 우 에 따 라 서 세 제 가 첨 가 된 물

KR

(6 쪽에 계속)

# 물질안전보건자료 GHS에 따라라따

인쇄일자: 2020.08.10

개정: 2020.08.10

**제품명:** Formamide, Ultra High Purity

(5 쪽부터계속)

## 14 운송에 필요한 정보

유엔 유엔번호 · ADR, IMDG, IATA	누락되다
적정적정적정명 · ADR, IMDG, IATA	누락되다
교통 교통운송 클래스 · ADR, ADN, IMDG, IATA	누락되다
등급등급등급 · 용기등급 · ADR, IMDG, IATA	누락되다
· 환경적 유해물질:	해당사항 없음.
· 이동특별특별특별 조치	해당사항 없음.
· MARPOL73/78(선박으로부터의 해양오염방지협약) 부속서2 및 IBC Code(국제선적화물코드)에 따른 벌크별별별 운송운송	해당사항 없음.
· 다른법규법규법규 규제	누락되다

## 15 법적 규제현황

- 산업안전보건법에 의해 규제
- 제조제조제조 금지물질: 성분이포함되어있지않다
- 허가대상물질: 성분이포함되어있지않다
- 관리대상유해물질: 성분이포함되어있지않다
- 작업환경측정 대상 유해인자 성분이포함되어있지않다
- 특수건강진단 대상 유해인자 성분이포함되어있지않다
- 해당해당해당 또는 포함 물에 대한 대한 대한 환경환경환경 법률
- Korean Existing Chemical Inventory KE-17231
- 화학물질관리법
- 사고대비물질 성분이포함되어있지않다
- 금지물질 성분이포함되어있지않다
- 제한물질 성분이포함되어있지않다
- 유독물질 성분이포함되어있지않다
- 허가물질 성분이포함되어있지않다
- 등록 등록 등록 또는 선제대상 화학물질 성분이포함되어있지않다
- ‘21년까지 등록하여야 할 암, 돌연변이, 생식능력 이상을 일으키거나 일으킬 우려가 있는 기존 화학물질 성분이포함되어있지않다
- 중점관리물 질양 지정지정
- 표1 중점관리물질(제한관련관련) 성분이포함되어있다
- 표2 중점관리물질(제한관련관련) 성분이포함되어있지않다
- 라벨라벨라벨 요소
- 본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.
- 그림문자



GHS08

(7 쪽에계속)

# 물질안전보건자료 GHS에 따라라따

인쇄일자: 2020.08.10

개정: 2020.08.10

**제품명: Formamide, Ultra High Purity**

(6 쪽부터계속)

- **신호어 위험**  
유해 ~~유해~~ **위험** 문구  
태아 또는 생식능력에 손상을 일으킬 수 있음
- **예방조치** 문구문구  
사용 전 취급 설명서를 확보하십시오.  
모든 안전 예방조치 문구를 읽고 이해하기 전에는 취급하지 마시오.  
보호장갑·보호의·보안경·안면보호구를 착용하십시오.  
노출 또는 접촉이 우려되면 의학적인 조언·주의를 받으시오.  
밀봉하여 저장하십시오.  
(지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기하십시오.
- **화학물질 안전성 평가** 화학물질 안전성 평가가 수행되지 않음

## 16 그 밖의 참고사항

이보고는우리지식에대한오늘날의상태에대하여평가하고있다, 하지만이보고서는생산특성에관한보증은 기술하지않았으며계약적인법률관계에기반을두고있지도않다

최초 ~~최초~~ **개정** 일자: 2020.08.10

개정 ~~개정~~ **일자**: 1 / 2020.08.10

· **약어와 두문자어:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative

# Saugos duomenų lapas pagal 1907/2006/EB, 31 straipsnis

Spausdinimo data: 10.08.2020

Peržiūrėta: 10.08.2020

## 1. SKIRSNIS. Medžiagos arba mišinio ir bendrovės arba įmonės identifikavimas

- **1.1 Produkto identifikatorius**
- **Prekybos ženklas:** *formamidas*
- **Gaminio numeris:** 15745, 15746, 15747
- **CAS numeris**  
75-12-7
- **EB numeris:**  
200-842-0
- **ES numeris:**  
616-052-00-8
- **1.2 Medžiagos ar mišinio nustatyti naudojimo būdai ir nerekomenduojami naudojimo būdai**  
Nėra jokių kitų svarbių informacijų.
- **Medžiagos / mišinio panaudojimas** Laboratoriniai chemikalai
- **1.3 Išsami informacija apie saugos duomenų lapo teikėją**
- **Gamintojas / tiekėjas**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Informacijos šaltinis:** Product safety department
- **1.4 Pagalbos telefono numeris:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2. SKIRSNIS. Galimi pavojai

- **2.1 Medžiagos ar mišinio klasifikavimas**
- **Klasifikavimas pagal Reglamentą (EB) Nr. 1272/2008**



GHS08 pavojai sveikatai

Repr. 1B H360D Gali pakenkti negimusiam kūdikiui.

- **2.2 Ženklavimo elementai**
- **Ženklavimas pagal Reglamentą (EB) Nr. 1272/2008**  
Medžiaga klasifikuojama bei ženklinama pagal KŽP reglamentą.
- **Pavojaus piktogramos**



GHS08

- **Signalinis žodis** Pavojinga
- **Pavojingumo frazės**  
H360D Gali pakenkti negimusiam kūdikiui.
- **Atsargumo frazės**  
P201 Prieš naudojimą gauti specialias instrukcijas.  
P202 Nenaudoti, jeigu neperskaityti ar nesuprasti visi saugos įspėjimai.  
P280 Mūvėti apsaugines pirštines / dėvėti apsauginius drabužius / naudoti akių (veido) apsaugos priemones.

(Tęsinys 2 psl.)

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(Puslapis 1 tęsinys)

P308+P313 Esant sąlyčiui arba jeigu numanomas sąlytis: kreiptis į gydytoją.

P405 Laikyti užrakintą.

P501 Turinį/talpą išpilti (išmesti) - šalinti pagal vietines / regionines / nacionalines / tarptautines taisykles.

### · 2.3 Kiti pavojai

· **PBT ir vPvB vertinimo rezultatai**

· **PBT:** Nevartotina.

· **vPvB:** Nevartotina.

## 3. SKIRSNIS. Sudėtis arba informacija apie sudedamąsias dalis

· **3.1 Cheminė charakteristika: Medžiagos**

· **CAS Nr. aprašymas**

75-12-7 formamidas

· **Identifikavimo numeris (-iai)**

· **EB numeris:** 200-842-0

· **ES numeris:** 616-052-00-8

· **SVHC**

75-12-7 formamidas

## 4. SKIRSNIS. Pirmosios pagalbos priemonės

· **4.1 Pirmosios pagalbos priemonių aprašymas**

· **Įkvėpus:** Garantuoti tyrą orą, tęsiantis negalavimams, kreiptis į gydytoją.

· **Po kontakto su oda:** Iš esmės produktas odos nedirgina.

· **Po kontakto su akimis:** Akis, atkėlus akių vokus, keletą minučių plauti tekančiu vandeniu.

· **Prarijus:** Išliekant simptomams, pasikonsultuoti su gydytoju.

· **4.2 Svarbiausi simptomai ir poveikis (ūmus ir uždelstas)** Nėra jokių kitų svarbių informacijų.

· **4.3 Nurodymas apie bet kokios neatidėliotinos medicinos pagalbos ir specialaus gydymo reikalingumą**

Nėra jokių kitų svarbių informacijų.

## 5. SKIRSNIS. Priešgaisrinės priemonės

· **5.1 Gesinimo priemonės**

· **Tinkamos gesinimo medžiagos:** Gaisro gesinimo priemonės taikyti adekvačiai aplinkai.

· **5.2 Specialūs medžiagos ar mišinio keliami pavojai** Nėra jokių kitų svarbių informacijų.

· **5.3 Patarimai gaisrininkams**

· **Ypatingos saugos priemonės:** Specialiosios priemonės nėra būtinos.

## 6. SKIRSNIS. Avarijų likvidavimo priemonės

· **6.1 Asmens atsargumo priemonės, apsaugos priemonės ir skubios pagalbos procedūros** Nereikalaujama.

· **6.2 Ekologinės atsargumo priemonės:**

Praskiesti dideliu kiekiu vandens.

Neleisti patekti į kanalizaciją/paviršinius vandenis/gruntinius vandenis.

· **6.3 Izoliavimo ir valymo procedūros bei priemonės:**

Surinkti su skysčiu rišančiomis medžiagomis (smėlis, žvyras, rūgščių rišiklis, universalus rišiklis, pjuvenos).

Užterštomis medžiagomis atsikratyti kaip atliekomis pagal 13 pkt. reikalavimus.

· **6.4 Nuoroda į kitus skirsnius**

Informacija apie saugų vartojimą pateikiama 7 skyriuje.

Informacija apie asmens saugos priemonės pateikiama 8 skyriuje.

(Tęsinys 3 psl.)



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(Puslapio 2 tęsinys)

Informacija apie sunaikinimą pateikiama 13 skyriuje.

### 7. SKIRSNIS. Tvarkymas ir sandėliavimas

- 7.1 Su saugiu tvarkymu susijusios atsargumo priemonės Indus atidaryti ir naudoti atsargiai.
- Nuorodos apsaugai nuo gaisro ir sprogimo: Laikyti paruošas kvėpavimo apsaugos priemonės.
- 7.2 Saugaus sandėliavimo sąlygos, įskaitant visus nesuderinamumus
- Sandėliavimas:
  - Reikalavimai sandėliavimo patalpoms ir talpoms: Nėra jokių specialių reikalavimų.
  - Nuorodos dėl laikymo bendrai: Nereikalaujama.
  - Kitos sandėliavimo nuorodos: Jokių.
- 7.3 Konkretus galutinio naudojimo būdas (-ai) Nėra jokių kitų svarbių informacijų.

### 8. SKIRSNIS. Poveikio kontrolė/asmens apsauga

- Papildomos nuorodos techninės įrangos pritaikymui: Jokių kitų nuorodų, žr. 7 pkt.
- 8.1 Kontrolės parametrai

- Sudedamosios dalys su darbo vietoje stebėtinomis vertėmis:

#### 75-12-7 formamidas

PRD	TPRD Trumpalaikio poveikio ribinis dydis: 30 mg/m <sup>3</sup> , 15 ppm
	IPRD Ilgalaikio poveikio ribinis dydis: 20 mg/m <sup>3</sup> , 10 ppm
	R O

- Papildomos nuorodos: Už pagrindą buvo paimti sudarymo metu galioję sąrašai.
- 8.2 Poveikio kontrolė
- Asmens saugos priemonės:
- Bendrosios saugos ir higienos priemonės:
  - Laikyti atokiai nuo maisto produktų, gėrimų ir pašarų.
  - Nedelsiant nusirengti išteptus, įsigėrusius drabužius.
  - Prieš pertrauką ir baigus darbą nusiplauti rankas.
  - Darbo aprangą laikyti atskirai.
- Kvėpavimo takų apsauga: Nereikalaujama.
- Rankų apsauga:
  - Medžiaga, iš kurios gaminama pirštinė, privalo būti nepralaidi ir atspari produktui / medžiagai / mišiniui.
  - Dėl testų nebuvimo rekomendacija dėl tinkamos pirštinių medžiagos apsaugai nuo produkto / ruošinio / chemikalų mišinio nepateikiama.
  - Pirštinių medžiagą rinktis atsižvelgiant į prasiskverbimo, trynimosi ir suirimo laiką.
- Pirštinių medžiaga
  - Tinkamų apsauginių pirštinių parinkimas priklauso ne tik nuo medžiagos, tačiau ir nuo kitų kokybinių rodiklių, kurie kiekvieno gamintojo yra skirtingi.
- Pirštinių medžiagos persigėrimo laikotarpis
  - Tikslaus apsauginių pirštinių susidėvėjimo laiko teirautis gamintojo ir laikytis nurodytos trukmės.
- Akių apsauga: Perpilant rekomenduojama dėvėti apsauginius akinius.

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(Tęsinys 4 psl.)

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Prekybos ženklas: formamidas

(Puslapio 3 tęsinys)

### 9. SKIRSNIS. Fizinės ir cheminės savybės

#### · 9.1 Informacija apie pagrindines fizines ir chemines savybes

##### · Bendra informacija

##### · Išvaizda:

· Forma:	Skysta(s)
· Spalva:	Gelsva(s)
· Kvapas:	Bekvapis(ė)
· Kvapo atsiradimo slenkstis:	Nenustatyta.

· pH vertė: Nenustatyta.

##### · Sudėties pakeitimas

· Lydimosi/užšalimo temperatūra:	2,5 °C (36,5 °F)
· Pradinė virimo temperatūra ir virimo temperatūros intervalas:	210,5 °C (410,9 °F)

· Plūpsnio temperatūra: 175 °C (347 °F)

· Degumas (kietų medžiagų, dujų): Nevartotina.

· Skilimo temperatūra: Nenustatyta.

· Savaiminio užsidegimo temperatūra: Nenustatyta.

· Sprogstamosios (sprogiosios) savybės: Produktas nekelia sprogo pavojaus.

##### · Sprogimo riba :

· Žemutinė:	Nenustatyta.
· Viršutinė	Nenustatyta.

· Garų slėgis esant 20 °C (68 °F): 0,03 hPa (0 mm Hg)

· Tankis esant 20 °C (68 °F): 1,1339 g/cm<sup>3</sup> (9,4624 lbs/gal)

· Santykinis tankis: Nenustatyta.

· Garų tankis: Nenustatyta.

· Garavimo greitis: Nenustatyta.

· Tirpumas / Maišymas su vandeniu:

Pilnai maišytina(s).

· Pasiskirstymo koeficientas: n-oktanolis/vanduo: Nenustatyta.

##### · Klampa:

· Dinaminis:	Nenustatyta.
· Kinematinis:	Nenustatyta.

· 9.2 Kita informacija: Nėra jokių kitų svarbių informacijų.

### 10. SKIRSNIS. Stabilumas ir reakingumas

· 10.1 Reakingumas Nėra jokių kitų svarbių informacijų.

· 10.2 Cheminis stabilumas

· Terminis irimas / vengtinės sąlygos: Nesu yra vartojant pagal instrukciją.

· 10.3 Pavojingų reakcijų galimybė Nežinomos jokios pavojingos reakcijos.

· 10.4 Vengtinės sąlygos Nėra jokių kitų svarbių informacijų.

· 10.5 Nesuderinamos medžiagos: Nėra jokių kitų svarbių informacijų.

· 10.6 Pavojingi skilimo produktai: Nežinomi jokie irimo produktai.

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(Tęsinys 5 psl.)

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(Puslapio 4 tęsinys)

## 11. SKIRSNIS. Toksikologinė informacija

- **11.1 Informacija apie toksiinį poveikį**
- **Ūmus toksiškumas** Remiantis turimais duomenimis neatitinka klasifikavimo kriterijų.

- **Klasifikacijai svarbios LD/LC50 vertės:**

Oralinis(ė)	LD50	5.570 mg/kg (rat)
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- **Pirminis perštėjimo efektas:**
- **Odos ėsdinimas ir (arba) dirginimas** Remiantis turimais duomenimis neatitinka klasifikavimo kriterijų.
- **Didelis kenksmingumas akims ir (arba) akių dirginimas**  
Remiantis turimais duomenimis neatitinka klasifikavimo kriterijų.
- **Kvėpavimo takų arba odos jautrinimas** Remiantis turimais duomenimis neatitinka klasifikavimo kriterijų.
- **CMR padarinius (kancerogeniškumą, mutageniškumą ir toksiškumą reprodukcijai)**
- **Mutageninis poveikis lytinėms ląstelėms** Remiantis turimais duomenimis neatitinka klasifikavimo kriterijų.
- **Kancerogeniškumas** Remiantis turimais duomenimis neatitinka klasifikavimo kriterijų.
- **Toksiškumas reprodukcijai**  
Gali pakenkti negimusiam kūdikiui.
- **STOT (vienkartinis poveikis)** Remiantis turimais duomenimis neatitinka klasifikavimo kriterijų.
- **STOT (kartotinis poveikis)** Remiantis turimais duomenimis neatitinka klasifikavimo kriterijų.
- **Aspiracijos pavojus** Remiantis turimais duomenimis neatitinka klasifikavimo kriterijų.

## 12. SKIRSNIS. Ekologinė informacija

- **12.1 Toksiškumas**
- **Vandeninis toksiškumas:** Nėra jokių kitų svarbių informacijų.
- **12.2 Patvarumas ir skaidomumas** Nėra jokių kitų svarbių informacijų.
- **12.3 Bioakumuliacijos potencialas** Nėra jokių kitų svarbių informacijų.
- **12.4 Judumas dirvožemyje** Nėra jokių kitų svarbių informacijų.
- **Kitos ekologinės nuorodos:**
- **Bendrosios nuorodos:**  
Vandens užteršimo klasė 1 (klasifikavimas pagal sąrašą): lengvai užteršia vandenį  
Neleisti neskiestame pavidale arba dideliais kiekiais patekti į gruntinius vandenis, vandens telkinius ir į kanalizaciją, net ir menkais kiekiais.
- **12.5 PBT ir vPvB vertinimo rezultatai**
- **PBT:** Nevartotina.
- **vPvB:** Nevartotina.
- **12.6 Kitas nepageidaujamas poveikis** Nėra jokių kitų svarbių informacijų.

## 13. SKIRSNIS. Atliekų tvarkymas

- **13.1 Atliekų tvarkymo metodai**
- **Rekomendacija:** Negalima pašalinti kartu su buitinėmis atliekomis. Neleisti patekti į kanalizaciją.
- **Nevalytos pakuotės:**
- **Rekomendacija:** Atsikratymas pagal žinybinį reglamentą.
- **Rekomenduojamas valiklis:** Vanduo, jeigu įmanoma pridėdant valymo priemonės.

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(Tęsinys 6 psl.)

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Prekybos ženklas: formamidas

(Puslapio 5 tęsinys)

### 14. SKIRSNIS. Informacija apie gabenimą

· 14.1 JT numeris · ADR, IMDG, IATA	atkrenta
· 14.2 JT teisingas krovinio pavadinimas · ADR, IMDG, IATA	atkrenta
· 14.3 Gabenimo pavojingumo klasė (-s) · ADR, ADN, IMDG, IATA · klasė	atkrenta
· 14.4 Pakuotės grupė · ADR, IMDG, IATA	atkrenta
· 14.5 Pavojus aplinkai:	Nevartotina.
· 14.6 Specialios atsargumo priemonės naudotojams	Nevartotina.
· 14.7 Nesupakuotų krovinių vežimas pagal MARPOL konvencijos II priedą ir IBC kodeksą	Nevartotina.
· UN "Model Regulation":	atkrenta

### 15. SKIRSNIS. Informacija apie reglamentavimą

· 15.1 Su konkrečia medžiaga ar mišiniu susiję saugos, sveikatos ir aplinkos teisės aktai

· Direktyva 2012/18/ES

· Vardinis pavojingų cheminių medžiagų sąrašas - I PRIEDAS Medžiagos nerasta.

· REGLAMENTAS (EB) Nr. 1907/2006 XVII PRIEDAS Apribojimo sąlygos: 3, 30

· Nacionaliniai normatyvai:

· Kitos nuostatos, apribojimai ir draudimai

· Didelį susirūpinimą keliančios medžiagos (SVHC) pagal REACH, 57 straipsnio

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· 15.2 Cheminės saugos vertinimas: Cheminės saugos vertinimas nebuvo atliktas.

### 16. SKIRSNIS. Kita informacija

Duomenys pateikti pagal šiandieninę mūsų žinių būklę, tačiau nepateikia produkto savybių garantijos ir nėra pagrindas sutartiniams teisiniams santykiams.

· **Santrumpos ir akronimai:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Repr. 1B: Toksinis poveikis reprodukcijai – 1B kategorija

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 10.08.2020

Revisión: 10.08.2020

### SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

- **1.1 Identificador del producto**
- **Nombre comercial:** formamida
- **Número del artículo:** 15745, 15746, 15747
- **Número CAS:**  
75-12-7
- **Número CE:**  
200-842-0
- **Número de clasificación:**  
616-052-00-8
- **1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados**  
No existen más datos relevantes disponibles.
- **Utilización del producto / de la elaboración** Sustancias químicas de laboratorio
- **1.3 Datos del proveedor de la ficha de datos de seguridad**
- **Fabricante/distribuidor:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Aname**  
C/ Perez Galdos no. 2  
28693 Quijorna  
Madrid, Spain  
Tel: +34.91.816.89.50  
Fax: +34.91.816.85.94  
email: ventas@aname.es
- **Área de información:** Product safety department
- **1.4 Teléfono de emergencia:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### SECCIÓN 2: Identificación de los peligros

- **2.1 Clasificación de la sustancia o de la mezcla**
- **Clasificación con arreglo al Reglamento (CE) n° 1272/2008**



GHS08 peligro para la salud

Repr. 1B H360D Puede dañar al feto.

- **2.2 Elementos de la etiqueta**
- **Etiquetado con arreglo al Reglamento (CE) n° 1272/2008**  
La sustancia se ha clasificado y etiquetado de conformidad con el reglamento CLP.
- **Pictogramas de peligro**



GHS08

- **Palabra de advertencia** Peligro

( se continua en página 2 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 10.08.2020

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Nombre comercial: formamida

( se continua en página 1 )

- **Indicaciones de peligro**

H360D Puede dañar al feto.

- **Consejos de prudencia**

P201 Solicitar instrucciones especiales antes del uso.

P202 No manipular la sustancia antes de haber leído y comprendido todas las instrucciones de seguridad.

P280 Llevar guantes/prendas/gafas/máscara de protección.

P308+P313 EN CASO DE exposición manifiesta o presunta: Consultar a un médico.

P405 Guardar bajo llave.

P501 Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/internacional.

- **2.3 Otros peligros**

- **Resultados de la valoración PBT y mPmB**

- **PBT:** No aplicable.

- **mPmB:** No aplicable.

### SECCIÓN 3: Composición/información sobre los componentes

- **3.1 Caracterización química: Sustancias**

- **Denominación N° CAS**

75-12-7 formamida

- **Número(s) de identificación**

- **Número CE:** 200-842-0

- **Número de clasificación:** 616-052-00-8

- **SVHC**

75-12-7 formamida

### SECCIÓN 4: Primeros auxilios

- **4.1 Descripción de los primeros auxilios**

- **En caso de inhalación del producto:** Suministrar aire fresco. En caso de trastornos, consultar al médico.

- **En caso de contacto con la piel:** Por regla general, el producto no irrita la piel.

- **En caso de con los ojos:** Limpiar los ojos abiertos durante varios minutos con agua corriente.

- **En caso de ingestión:** Consultar un médico si los trastornos persisten.

- **4.2 Principales síntomas y efectos, agudos y retardados** No existen más datos relevantes disponibles.

- **4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente**  
No existen más datos relevantes disponibles.

### SECCIÓN 5: Medidas de lucha contra incendios

- **5.1 Medios de extinción**

- **Sustancias extintoras apropiadas:** Combatir los incendios con medidas adaptados al ambiente circundante.

- **5.2 Peligros específicos derivados de la sustancia o la mezcla** No existen más datos relevantes disponibles.

- **5.3 Recomendaciones para el personal de lucha contra incendios**

- **Equipo especial de protección:** No se requieren medidas especiales.

### SECCIÓN 6: Medidas en caso de vertido accidental

- **6.1 Precauciones personales, equipo de protección y procedimientos de emergencia** No es necesario.

- **6.2 Precauciones relativas al medio ambiente:**

Diluir con mucha agua.

( se continua en página 3 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 10.08.2020

Revisión: 10.08.2020

Nombre comercial: formamida

( se continua en página 2 )

Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.

· **6.3 Métodos y material de contención y de limpieza:**

Quitar con material absorbente (arena, kieselgur, aglutinante de ácidos, aglutinante universal, aserrín).

Desechar el material contaminado como vertido según ítem 13.

· **6.4 Referencia a otras secciones**

Ver capítulo 7 para mayor información sobre una manipulación segura.

Ver capítulo 8 para mayor información sobre el equipo personal de protección.

Para mayor información sobre cómo desechar el producto, ver capítulo 13.

### SECCIÓN 7: Manipulación y almacenamiento

· **7.1 Precauciones para una manipulación segura** Abrir y manejar el recipiente con cuidado.

· **Prevención de incendios y explosiones:** Tener preparados los aparatos respiratorios.

· **7.2 Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades**

· **Almacenamiento:**

· **Exigencias con respecto al almacén y los recipientes:** No se requieren medidas especiales.

· **Normas en caso de un almacenamiento conjunto:** No es necesario.

· **Indicaciones adicionales sobre las condiciones de almacenamiento:** Ningunos, -as.

· **7.3 Usos específicos finales** No existen más datos relevantes disponibles.

### SECCIÓN 8: Controles de exposición/protección individual

· **Instrucciones adicionales para el acondicionamiento de instalaciones técnicas:**

Sin datos adicionales, ver punto 7.

· **8.1 Parámetros de control**

· **Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:**

75-12-7 formamida

LEP	Valor de larga duración: 19 mg/m <sup>3</sup> , 10 ppm vía dérmica, TRIB, r
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· **Indicaciones adicionales:** Como base se han utilizado las listas vigentes en el momento de la elaboración.

· **8.2 Controles de la exposición**

· **Equipo de protección individual:**

· **Medidas generales de protección e higiene:**

Mantener alejado de alimentos, bebidas y alimentos para animales.

Quitarse de inmediato la ropa ensuciada o impregnada.

Lavarse las manos antes de las pausas y al final del trabajo.

Guardar la ropa protectora por separado.

· **Protección respiratoria:** No es necesario.

· **Protección de manos:**

El material del guante deberá ser impermeable y resistente al producto / sustancia / preparado.

Ante la ausencia de tests específicos, no se puede recomendar ningún material específico para guantes de protección contra el producto / preparado / mezcla de sustancias químicas.

Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.

· **Material de los guantes**

La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro.

· **Tiempo de penetración del material de los guantes**

El tiempo de resistencia a la penetración exacto deberá ser pedido al fabricante de los guantes. Este tiempo debe ser respetado.

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· **Protección de ojos:** Se recomienda el uso de gafas de protección durante el trasvase del producto.

### SECCIÓN 9: Propiedades físicas y químicas

#### · 9.1 Información sobre propiedades físicas y químicas básicas

##### · Datos generales

##### · Aspecto:

**Forma:** Líquido  
**Color:** Amarillento

· **Olor:** Inodoro

· **Umbral olfativo:** No determinado.

· **valor pH:** No determinado.

##### · Cambio de estado

**Punto de fusión/punto de congelación:** 2,5 °C  
**Punto inicial de ebullición e intervalo de ebullición:** 210,5 °C

· **Punto de inflamación:** 175 °C

· **Inflamabilidad (sólido, gas):** No aplicable.

· **Temperatura de descomposición:** No determinado.

· **Temperatura de auto-inflamación:** No determinado.

· **Propiedades explosivas:** El producto no es explosivo.

##### · Límites de explosión:

**Inferior:** No determinado.

**Superior:** No determinado.

· **Presión de vapor a 20 °C:** 0,03 hPa

· **Densidad a 20 °C:** 1,1339 g/cm<sup>3</sup>

· **Densidad relativa:** No determinado.

· **Densidad de vapor:** No determinado.

· **Tasa de evaporación:** No determinado.

##### · Solubilidad en / miscibilidad con agua:

Completamente mezclable.

· **Coefficiente de reparto: n-octanol/agua:** No determinado.

##### · Viscosidad:

**Dinámica:** No determinado.

**Cinemática:** No determinado.

· **9.2 Otros datos:** No existen más datos relevantes disponibles.

### SECCIÓN 10: Estabilidad y reactividad

· **10.1 Reactividad:** No existen más datos relevantes disponibles.

#### · 10.2 Estabilidad química

· **Descomposición térmica / condiciones que deben evitarse:** No se descompone al emplearse adecuadamente.

· **10.3 Posibilidad de reacciones peligrosas:** No se conocen reacciones peligrosas.

· **10.4 Condiciones que deben evitarse:** No existen más datos relevantes disponibles.

· **10.5 Materiales incompatibles:** No existen más datos relevantes disponibles.

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· **10.6 Productos de descomposición peligrosos:** No se conocen productos de descomposición peligrosos.

### SECCIÓN 11: Información toxicológica

· **11.1 Información sobre los efectos toxicológicos**· **Toxicidad aguda** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.· **Valores LD/LC50 (dosis letal /dosis letal = 50%) relevantes para la clasificación:**

Oral	LD50	5.570 mg/kg (rat)
------	------	-------------------

· **Efecto estimulante primario:**· **Corrosión o irritación cutáneas** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.· **Lesiones o irritación ocular graves**

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

· **Sensibilización respiratoria o cutánea**

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

· **Efectos CMR (carcinogenicidad, mutagenicidad y toxicidad para la reproducción)**· **Mutagenicidad en células germinales**

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

· **Carcinogenicidad** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.· **Toxicidad para la reproducción**

Puede dañar al feto.

· **Toxicidad específica en determinados órganos (STOT) – exposición única**

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

· **Toxicidad específica en determinados órganos (STOT) – exposición repetida**

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

· **Peligro de aspiración** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

### SECCIÓN 12: Información ecológica

· **12.1 Toxicidad**· **Toxicidad acuática:** No existen más datos relevantes disponibles.· **12.2 Persistencia y degradabilidad** No existen más datos relevantes disponibles.· **12.3 Potencial de bioacumulación** No existen más datos relevantes disponibles.· **12.4 Movilidad en el suelo** No existen más datos relevantes disponibles.· **Indicaciones medioambientales adicionales:**· **Indicaciones generales:**

Nivel de riesgo para el agua 1 (clasificación de listas): escasamente peligroso para el agua

En estado no diluido o no neutralizado, no dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados.

· **12.5 Resultados de la valoración PBT y mPmB**· **PBT:** No aplicable.· **mPmB:** No aplicable.· **12.6 Otros efectos adversos** No existen más datos relevantes disponibles.

### SECCIÓN 13: Consideraciones relativas a la eliminación

· **13.1 Métodos para el tratamiento de residuos**· **Recomendación:** No debe desecharse con la basura doméstica. No debe llegar al alcantarillado.· **Embalajes sin limpiar:**· **Recomendación:** Eliminar conforme a las disposiciones oficiales.

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· **Producto de limpieza recomendado:** Agua, eventualmente añadiendo productos de limpieza.

### SECCIÓN 14: Información relativa al transporte

- |                                                                                        |               |
|----------------------------------------------------------------------------------------|---------------|
| · 14.1 Número ONU<br>· ADR, IMDG, IATA                                                 | suprimido     |
| · 14.2 Designación oficial de transporte de las Naciones Unidas<br>· ADR, IMDG, IATA   | suprimido     |
| · 14.3 Clase(s) de peligro para el transporte<br>· ADR, ADN, IMDG, IATA<br>· Clase     | suprimido     |
| · 14.4 Grupo de embalaje<br>· ADR, IMDG, IATA                                          | suprimido     |
| · 14.5 Peligros para el medio ambiente:                                                | No aplicable. |
| · 14.6 Precauciones particulares para los usuarios                                     | No aplicable. |
| · 14.7 Transporte a granel con arreglo al anexo II del Convenio MARPOL y el Código IBC | No aplicable. |
| · "Reglamentación Modelo" de la UNECE:                                                 | suprimido     |

### SECCIÓN 15: Información reglamentaria

- 15.1 Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla
    - Directiva 2012/18/UE
    - Sustancias peligrosas nominadas - ANEXO I No contiene la sustancia.
    - REGLAMENTO (CE) n° 1907/2006 ANEXO XVII Restricciones: 3, 30
    - Disposiciones nacionales:
    - Demás disposiciones, limitaciones y decretos prohibitivos
- |                                                                     |
|---------------------------------------------------------------------|
| · Sustancias altamente preocupantes (SVHC) según REACH, artículo 57 |
| 75-12-7 formamida                                                   |
- 15.2 Evaluación de la seguridad química: Una evaluación de la seguridad química no se ha llevado a cabo.

### SECCIÓN 16: Otra información

Los datos se fundan en el estado actual de nuestros conocimientos, pero no constituyen garantía alguna de cualidades del producto y no generan ninguna relación jurídica contractual.

- **Abreviaturas y acrónimos:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent

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*PBT: Persistent, Bioaccumulative and Toxic*

*SVHC: Substances of Very High Concern*

*vPvB: very Persistent and very Bioaccumulative*

*Repr. 1B: Toxicidad para la reproducción – Categoría 1B*

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