

## Safety data sheet

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BASF Safety data sheet  
Date / Revised: 27.01.2025  
Product: **Lupro-Cid®**

Version: 6.1

(30041101/SDS\_GEN\_SG/EN)

Date of print: 16.10.2025

### 1. Substance/preparation and manufacturer/supplier identification

**Product name:**  
**Lupro-Cid®**

Use: feed additive(s)

Manufacturer/supplier:

BASF South East Asia Pte Ltd.  
128 Beach Road #18-01  
Guoco Midtown, 189773, Singapore  
Telephone: +65 8322 4420  
Telefax number: +65 6 334-0330  
E-mail address: benny.zou@basf.com

Emergency information:

Singapore Emergency Toll-Free Number:  
Telephone: 1800-723-1361  
International emergency number:  
Telephone: +49 180 2273-112

### 2. Hazard identification

Classification of the substance and mixture:

Flammable liquids: Cat.3  
Acute toxicity: Cat.4 (Inhalation - vapour)  
Acute toxicity: Cat.4 (oral)  
Acute toxicity: Cat.5 (dermal)  
Skin corrosion/irritation: Cat.1B  
Serious eye damage/eye irritation: Cat.1  
Specific target organ toxicity — single exposure: Cat.3 (irritating to respiratory system)

Label elements and precautionary statement:

Pictogram:

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Signal Word:  
 Danger

## Hazard Statement:

H226 Flammable liquid and vapour.  
 H314 Causes severe skin burns and eye damage.  
 H313 May be harmful in contact with skin.  
 H335 May cause respiratory irritation.  
 H302 + H332 Harmful if swallowed or if inhaled.

## Precautionary Statements (Prevention):

P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves, protective clothing and eye protection or face protection.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P260 Do not breathe dust/gas/mist/vapours.  
 P243 Take action to prevent static discharges.  
 P241 Use explosion-proof electrical, ventilating and lighting equipment.  
 P270 Do not eat, drink or smoke when using this product.  
 P264 Wash contaminated body parts thoroughly after handling.  
 P240 Ground and bond container and receiving equipment.  
 P242 Use non-sparking tools.

## Precautionary Statements (Response):

P310 Immediately call a POISON CENTER or physician.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P363 Wash contaminated clothing before reuse.  
 P370 + P378 In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder or water spray for extinction.

## Precautionary Statements (Storage):

P233 Keep container tightly closed.  
 P403 + P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.

## Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

## Other hazards which do not result in classification:

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

### 3. Composition/information on ingredients

#### Chemical nature

Substance nature: mixture

Preparation based on:  
formic acid, propionic acid, water

#### Hazardous ingredients

formic acid

Content (W/W):  $\geq 50\%$  -  $< 75\%$   
CAS Number: 64-18-6

Flam. Liq.: Cat. 3  
Acute Tox.: Cat. 3 (Inhalation - vapour)  
Acute Tox.: Cat. 4 (oral)  
Skin Corr./Irrit.: Cat. 1A  
Eye Dam./Irrit.: Cat. 1

propionic acid

Content (W/W):  $\geq 25\%$  -  $< 50\%$   
CAS Number: 79-09-4

Flam. Liq.: Cat. 3  
Acute Tox.: Cat. 5 (oral)  
Acute Tox.: Cat. 5 (dermal)  
Skin Corr./Irrit.: Cat. 1B  
Eye Dam./Irrit.: Cat. 1  
STOT SE: Cat. 3 (irr. to respiratory syst.)

### 4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Do not induce vomiting. Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:

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Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, dry powder, alcohol-resistant foam, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

harmful vapours, carbon oxides

The substances/groups of substances mentioned can be released in case of fire. The product is combustible.

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Cool endangered containers with water-spray.

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## 6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Information regarding personal protective measures, see section 8. Ensure adequate ventilation. Do not breathe vapour/spray. Wear respiratory protection if ventilation is inadequate. Avoid contact with the skin, eyes and clothing. Take off immediately all contaminated clothing. Avoid all sources of ignition: heat, sparks, open flame.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For small amounts: Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust).

For large amounts: Dike spillage. Cover with blanket of foam (alcohol-resistant foam). Pump off product.

For residues: Pick up with suitable absorbent material.

Dispose of absorbed material in accordance with regulations. Cleaning operations should be carried out only while wearing breathing apparatus.

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## 7. Handling and Storage

Handling

Ensure thorough ventilation of stores and work areas. Wear suitable protective clothing and eye/face protection. Avoid contact with the skin, eyes and clothing. Keep container tightly sealed.

Protection against fire and explosion:

The product is combustible. Avoid all sources of ignition: heat, sparks, open flame. Take precautionary measures against static discharges. If exposed to fire, keep containers cool by spraying with water. Vapours may form explosive mixture with air.

Storage

Segregate from alkalies and alkalizing substances.

Suitable materials for containers: glass, Stainless steel 1.4401, Stainless steel 1.4301 (V2), Aluminium, High density polyethylene (HDPE), Low density polyethylene (LDPE)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Protect containers from physical damage.

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## 8. Exposure controls and personal protection

Components with occupational exposure limits

formic acid, 64-18-6;

TWA value 5 ppm (ACGIHTLV)

TWA value 9.4 mg/m<sup>3</sup> ; 5 ppm (OEL (SG))

STEL value 19 mg/m<sup>3</sup> ; 10 ppm (OEL (SG))

propionic acid, 79-09-4;

TWA value 10 ppm (ACGIHTLV)

TWA value 30 mg/m<sup>3</sup> ; 10 ppm (OEL (SG))

Personal protective equipmentRespiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

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**Hand protection:**

Wear chemical resistant protective gloves.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

butyl rubber (butyl) - 0.7 mm coating thickness

fluoroelastomer (FKM) - 0.7 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

**Eye protection:**

Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

**Body protection:**

Body protection must be chosen based on level of activity and exposure., acid- resp. lye-proof apron, e.g. of rubber (f.e. according to EN 14605), protection boots, f.e. of rubber (e.g. according to EN 20346), acid-proof chemical protection suit (f.e. according to EN 14605)

**General safety and hygiene measures:**

Avoid contact with the skin, eyes and clothing. Do not inhale gases/vapours/aerosols. Wearing of closed work clothing is required additionally to the stated personal protection equipment. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

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## 9. Physical and Chemical Properties

Form:	liquid	
Colour:	Colourless to reddish	
Odour:	pungent	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
pH value:	1.5 - 1.9 (100 g/l)	
Melting point:	-18.2 °C	
Boiling range:	107 - 117 °C	(DIN 53171)
Flash point:	55.5 °C	(DIN 51755)
Evaporation rate:	No data available.	
Flammability (solid/gas):	Flammable liquid and vapour.	(derived from flash - and boiling point)
Lower explosion limit:	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	534 °C	

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Thermal decomposition:	>= 95 °C	(DSC (DIN 51007))
Information on:formic acid		
Thermal decomposition:	350 °C , > 150 kJ/kg	(DSC (DIN 51007))
Information on:propionic acid		
Thermal decomposition:	No exothermic decomposition within the mentioned temperature range. It is not a self-decomposable substance.	(DSC (DIN 51007))
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SADT:	No data available.	
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.	
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	
Vapour pressure:	24 hPa (20 °C)	
Density:	approx. 1.15 g/cm <sup>3</sup> (20 °C)	
Relative density:	No data available.	
Relative vapour density (air):	> 1 (20 °C) Heavier than air.	(calculated)
Solubility in water:	fully soluble	
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures	
Information on: formic acid		
Partitioning coefficient n-octanol/water (log Pow):	-2.1 (23 °C; pH value: 7.0)	(Directive 92/69/EEC, A.8)
	-1.9 (23 °C; pH value: 5.0)	(Directive 92/69/EEC, A.8)
	-2.3 (23 °C; pH value: 9.0)	(Directive 92/69/EEC, A.8)
Information on: propionic acid		
Partitioning coefficient n-octanol/water (log Pow):	0.33 Literature data.	(measured)
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Viscosity, dynamic:	approx. 1.86 mPa.s (20 °C)	
Viscosity, kinematic:	1.61 mm <sup>2</sup> /s (20 °C) calculated	(calculated (from dynamic viscosity))

#### Particle characteristics

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Particle size distribution: No data available. -  
Specific Surface Area: No data available.  
Particle Shape: No data available.  
Dustiness: No data available.

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## 10. Stability and Reactivity

Conditions to avoid:  
Avoid all sources of ignition: heat, sparks, open flame. See SDS section 7 - Handling and storage.

Thermal decomposition:  $\geq 95\text{ °C}$  (DSC (DIN 51007))

Information on: formic acid  
Thermal decomposition:  $350\text{ °C}$ ,  $> 150\text{ kJ/kg}$  (DSC (DIN 51007))

Information on: propionic acid  
Thermal decomposition: (DSC (DIN 51007))  
No exothermic decomposition within the mentioned temperature range. It is not a self-decomposable substance.

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Substances to avoid:  
alkalies

Corrosion to metals: In the presence of water or moisture metal corrosion cannot be excluded.  
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Hazardous reactions:  
Reacts with alkalies. Exothermic reaction.

Hazardous decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

Chemical stability:  
The product is stable if stored and handled as prescribed/indicated.

Reactivity:  
No hazardous reactions if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Routes of exposure

#### Acute oral toxicity

Experimental/calculated data:  
(oral): No data available.



**Acute inhalation toxicity**

(by inhalation): No data available.

**Acute dermal toxicity**

(dermal): No data available.

**Assessment of acute toxicity**

Of moderate toxicity after short-term inhalation. Of moderate toxicity after single ingestion. Of low toxicity after short-term skin contact.

Information on: formic acid

**Acute oral toxicity**

Experimental/calculated data:

LD50 rat (oral): 730 mg/kg (OECD Guideline 401)

Information on: propionic acid

**Acute oral toxicity**

Experimental/calculated data:

LD50 rat (oral): 3,455 mg/kg (similar to OECD guideline 401)

Information on: formic acid

**Acute inhalation toxicity**

Experimental/calculated data:

LC50 rat (by inhalation): 7.85 mg/l 4 h (BASF-Test)

The vapour was tested.

Information on: propionic acid

**Acute inhalation toxicity**

Experimental/calculated data:

LC50 rat (by inhalation): > 19.7 mg/l 1 h (OECD Guideline 403)

The vapour was tested.

LC0 rat (by inhalation): 24.4 mg/l 8 h (IRT)

Literature data. No mortality within the stated exposition time as shown in animal studies. The vapour was tested.

Information on: propionic acid

**Acute dermal toxicity**

Experimental/calculated data:

LD50 rat (dermal): 3,235 mg/kg (similar to OECD guideline 402)

**Symptoms**

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

(Further) symptoms and / or effects are not known so far

## Irritation

Assessment of irritating effects:

Corrosive! Damages skin and eyes. May cause severe damage to the eyes.

Experimental/calculated data:

Skin corrosion/irritation: No data available.

Serious eye damage/irritation: No data available.

## Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

No data available.

Information on: formic acid

Experimental/calculated data:

Buehler test guinea pig: Non-sensitizing. (OECD Guideline 406)

Information on: propionic acid

Experimental/calculated data:

Guinea pig maximization test guinea pig: Non-sensitizing. (similar to OECD guideline 406)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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## Germ cell mutagenicity

Assessment of mutagenicity:

No mutagenic effect was found in various tests with bacteria and mammalian cell culture.

Information on: formic acid

Assessment of mutagenicity:

No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The substance was not mutagenic in an insect test. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Information on: propionic acid

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in studies with mammals. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

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## Carcinogenicity

Assessment of carcinogenicity:

In long-term animal studies in which the substance was given in high concentrations by feed, a carcinogenic effect was not observed.

Experimental/calculated data:

No data available.

Information on: formic acid

Assessment of carcinogenicity:

In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: propionic acid

Assessment of carcinogenicity:

In long-term animal studies in which the substance was given in high concentrations by feed, a carcinogenic effect was not observed.

## Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Experimental/calculated data:

No data available.

Information on: formic acid

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: propionic acid

Assessment of reproduction toxicity:

No data available. Study scientifically not justified.

## Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Information on: formic acid

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: propionic acid

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

## Specific target organ toxicity (single exposure)

Causes temporary irritation of the respiratory tract.

### **Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**

Assessment of repeated dose toxicity:

Based on available data, the classification criteria are not met.

Experimental/calculated data:

No data available.

Information on: formic acid

Assessment of repeated dose toxicity:

No substance-specific organotoxicity was observed after repeated administration to animals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: propionic acid

Assessment of repeated dose toxicity:

No substance-specific organotoxicity was observed after repeated administration to animals. After repeated administration the prominent effect is the induction of corrosion.

### **Aspiration hazard**

No aspiration hazard expected.

### **Other relevant toxicity information**

The product has not been tested. The statement has been derived from the properties of the individual components.

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

The product gives rise to pH shifts.

Toxicity to fish:

No data available.

Aquatic invertebrates:

No data available.

Aquatic plants:

No data available.

Microorganisms/Effect on activated sludge:

No data available.

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No data available.

Information on: formic acid

Toxicity to fish:

LC50 (96 h) 130 mg/l, *Brachydanio rerio* (OECD 203; ISO 7346; 92/69/EWG, C.1, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: propionic acid

Toxicity to fish:

LC50 (96 h) > 10,000 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: formic acid

Aquatic invertebrates:

EC50 (48 h) 365 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The statement of the toxic effect relates to the analytically determined concentration.

Information on: propionic acid

Aquatic invertebrates:

EC50 (48 h) > 500 mg/l, *Daphnia magna* (Directive 84/449/EEC, C.2, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: formic acid

Aquatic plants:

EC50 (72 h) 1,240 mg/l (growth rate), *Selenastrum capricornutum* (OECD Guideline 201, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

EC50 (72 h) 32.64 mg/l (growth rate), *Scenedesmus subspicatus* (DIN 38412 Part 9, static)

The details of the toxic effect relate to the nominal concentration. The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample.

Information on: propionic acid

Aquatic plants:

EC50 (72 h) > 500 mg/l (biomass), *Scenedesmus subspicatus* (OECD Guideline 201, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: formic acid

Microorganisms/Effect on activated sludge:

EC10 (3 h) > 500 mg/l, activated sludge, domestic, non-adapted (OECD Guideline 209, aerobic)

No effects at the highest test concentration. Nominal concentration.

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Information on: propionic acid

Microorganisms/Effect on activated sludge:

EC20 (30 min) 500 - 1,040 mg/l, activated sludge, domestic (DIN EN ISO 8192, aquatic)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Assessment of terrestrial toxicity:

No data available.

Information on: propionic acid

Terrestrial plants:

EC50 (3 d) 125.8 mg/l, Lactuca sativa

Literature data.

## Mobility

Assessment transport between environmental compartments:

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is not expected.

## Persistence and degradability

Information on: formic acid

Elimination information:

100 % DOC reduction (9 d) (OECD 301E/92/69/EWG, C.4-B) (aerobic, municipal sewage treatment plant effluent)

Information on: propionic acid

Elimination information:

approx. 74 % BOD of the ThOD (30 d) (other) (aerobic, activated sludge, domestic)

## Bioaccumulation potential

Assessment bioaccumulation potential:

Significant accumulation in organisms is not to be expected.

## Additional information

Add. remarks environm. fate & pathway:

The product has not been tested. The statements on environmental fate and pathway have been derived from the properties of the individual components.

Other ecotoxicological advice:

The product has not been tested. The statement has been derived from the properties of the individual components.

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## 13. Disposal Considerations

Observe national and local legal requirements.

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## 14. Transport Information

### Domestic transport:

UN number or ID number: UN 2920  
UN proper shipping name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (FORMIC ACID, PROPIONIC ACID)  
Transport hazard class(es): 8, 3  
Packing group: II  
Environmental hazards: no  
  
Special precautions for user: None known

### Sea transport

#### IMDG

UN number or ID number: UN 2920  
UN proper shipping name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (FORMIC ACID, PROPIONIC ACID)  
Transport hazard class(es): 8, 3  
Packing group: II  
Environmental hazards: no  
Marine pollutant: NO  
Special precautions for user: EmS: F-E; S-C

### Air transport

#### IATA/ICAO

UN number or ID number: UN 2920  
UN proper shipping name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (FORMIC ACID, PROPIONIC ACID)  
Transport hazard class(es): 8, 3  
Packing group: II  
Environmental hazards: No Mark as dangerous for the environment is needed  
Special precautions for user: None known

### Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

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## 15. Regulatory Information

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### **Other regulations**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

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## **16. Other Information**

Information on intended use: This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. Corresponding occupational protection measurements must be followed.

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.