

Safety Data Sheet

Lupro-Cid®

Revision date : 2025/08/28

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(30041101/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Lupro-Cid®

Recommended use of the chemical and restriction on use

Recommended use*: feed additive(s)

Unsuitable for use: Not intended for sale to or use by the general public.

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Synonyms:

Preparation based on: Formic acid, propionic acid, Water

2. Hazards Identification

According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Flam. Liq.	3	Flammable liquids
Acute Tox.	4 (Inhalation - vapour)	Acute toxicity
Acute Tox.	4 (oral)	Acute toxicity
Skin Corr.	1A	Skin corrosion
Eye Dam.	1	Serious eye damage
STOT SE	3 (irritating to)	Specific target organ toxicity — single exposure

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respiratory system)

Label elements

Pictogram:



Signal Word:
Danger

Hazard Statement:

H226	Flammable liquid and vapour.
H335	May cause respiratory irritation.
H314	Causes severe skin burns and eye damage.
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/container in accordance with local regulations.
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Hazards not otherwise classified

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No applicable information available.

Labeling of special preparations (GHS):

The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 11 %

3. Composition / Information on Ingredients

According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Formic Acid

CAS Number: 64-18-6
Content (W/W): 60.0 - 80.0%
Synonym: No data available.

propionic acid

CAS Number: 79-09-4
Content (W/W): 10.0 - 30.0%
Synonym: Propanoic acid; Propionic acid

The actual concentration is withheld as a trade secret.

4. First-Aid Measures

Description of 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.

If on skin:

Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Seek medical attention.

If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. If irritation develops, seek medical attention.

If swallowed:

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

Most important symptoms and effects, both acute and delayed

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Information on: Formic Acid

Symptoms: Overexposure may cause: vomiting, aspiration pneumonia, circulatory collapse, death, acidosis, abdominal cramps, dyspnea, hypotension (low blood pressure), nausea, diarrhea, salivation

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment:

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

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

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

Unsuitable extinguishing media for safety reasons:

water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

harmful vapours, carbon oxides

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

Advice for fire-fighters

Protective equipment for fire-fighting:

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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 and material for containment and cleaning 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.

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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.

7. Handling and Storage

Precautions for safe 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.

Conditions for safe storage, including any incompatibilities

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.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

Formic Acid	ACGIH, US:	TWA value 5 ppm ;
	OSHA Z1:	PEL 5 ppm 9 mg/m ³ ;
	NIO ID, US:	IDLH 30 ppm ; IDLH values based on the 1994 Revised Criteria
	NIO ID, US:	LEL 18 % ;
propionic acid	ACGIH, US:	TWA value 10 ppm ;

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Wear a NIOSH-certified (or equivalent) respirator as necessary.

Hand protection:

Wear impermeable chemical resistant protective gloves.

Eye protection:

Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

Body protection:

Body protection must be chosen based on level of activity and exposure.

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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.

9. Physical and Chemical Properties

Physical state:	liquid	
Form:	liquid	
Odour:	pungent	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
Colour:	Colourless to reddish	
pH value:	1.5 - 1.9 (100 g/l)	
Melting point:	-18.2 °C	
Freezing point:	No data available.	
Boiling range:	107 - 117 °C	(DIN 53171)
Flash point:	55.5 °C	(DIN 51755)
Flammability:	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.	
Autoignition:	534 °C	
Vapour pressure:	24 hPa (20 °C)	
Density:	approx. 1.15 g/cm3 (20 °C)	
Relative vapour density:	> 1 (20 °C) Heavier than air.	(calculated)
Partitioning coefficient n- octanol/water (log Pow):	not applicable for mixtures	
<i>Information on: Formic Acid</i>		
Partitioning coefficient n- octanol/water (log Pow):	-2.1 (23 °C)	(Directive 92/69/EEC, A.8)
	-1.9 (23 °C)	(Directive 92/69/EEC, A.8)
	-2.3 (23 °C)	(Directive 92/69/EEC, A.8)
<i>Information on: propionic acid</i>		
Partitioning coefficient n- octanol/water (log Pow):	0.33 Literature data.	(measured)
Thermal decomposition:	>= 95 °C (DSC (DIN 51007))	
<i>Information on: Formic Acid</i>		
Thermal decomposition:	350 °C, > 150 kJ/kg (DSC (DIN 51007))	
<i>Information on: propionic acid</i>		
Thermal decomposition:	(DSC (DIN 51007)) No exothermic decomposition within the mentioned temperature range. It is not a self-decomposable substance.	

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Viscosity, dynamic:	approx. 1.86 mPa.s (20 °C)	
Viscosity, kinematic:	1.61 mm ² /s (20 °C)	(calculated (from dynamic viscosity))
	calculated	
Solubility in water:	fully soluble	
Molecular weight:	No data available.	

Particle characteristics

No applicable information available.

10. Stability and Reactivity

Reactivity

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

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.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

Chemical stability

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

Possibility of hazardous reactions

Reacts with alkalis. Exothermic reaction.

Conditions to avoid

Avoid electro-static discharge. Avoid all sources of ignition: heat, sparks, open flame.

Incompatible materials

alkalies

Hazardous decomposition products

Decomposition products:

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

Thermal decomposition:

>= 95 °C (DSC (DIN 51007))

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

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Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after short-term inhalation. Of moderate toxicity after single ingestion.

Oral

Type of value: ATE

Value: 1,150 mg/kg

Information on: Formic Acid

Type of value: LD50

Species: rat (male/female)

Value: 730 mg/kg (OECD Guideline 401)

Information on: propionic acid

Type of value: LD50

Species: rat (male/female)

Value: 3,455 mg/kg (similar to OECD guideline 401)

Inhalation

Type of value: ATE

Value: 12.3 mg/l

Determined for vapor

Information on: Formic Acid

Type of value: LC50

Species: rat (male/female)

Value: 7.85 mg/l (BASF-Test)

Exposure time: 4 h

The vapour was tested.

Information on: propionic acid

Type of value: LC50

Species: rat (male/female)

Value: > 19.7 mg/l (OECD Guideline 403)

Exposure time: 1 h

The vapour was tested.

Type of value: LC0

Species: rat (male/female)

Value: 24.4 mg/l (IRT)

Exposure time: 8 h

The vapour was tested.

Literature data. No mortality within the stated exposition time as shown in animal studies.

Dermal

Type of value: ATE

Value: > 5,000 mg/kg

Information on: propionic acid

Type of value: LD50

Species: rat (female)

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Value: 3,235 mg/kg (similar to OECD guideline 402)

Assessment other acute effects

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

Irritation / corrosion

Assessment of irritating effects: Corrosive! Damages skin and eyes. May cause severe damage to the eyes.

Information on: Formic Acid

Assessment of irritating effects: Highly corrosive! Damages skin and eyes.

Information on: propionic acid

Assessment of irritating effects: Corrosive! Damages skin and eyes.

Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Information on: Formic Acid

Buehler test

Species: guinea pig

Result: Non-sensitizing.

Method: OECD Guideline 406

Information on: propionic acid

Guinea pig maximization test

Species: guinea pig

Result: Non-sensitizing.

Method: 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.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Based on available data, the classification criteria are not met.

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.

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Genetic toxicity

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.

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.

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.

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.

Teratogenicity

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.

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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.

Other Information

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

12. Ecological Information

Toxicity

Aquatic toxicity

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.

Assessment of terrestrial toxicity

No data available.

Toxicity to terrestrial plants

Information on: propionic acid

EC50 (3 d) 125.8 mg/l 188.7 mg/kg, Lactuca sativa

Literature data.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

Information on: Formic Acid

OECD Guideline 209 aerobic

activated sludge, domestic, non-adapted/EC10 (3 h): > 500 mg/l

No effects at the highest test concentration. Nominal concentration.

Information on: propionic acid

DIN EN ISO 8192 aquatic

activated sludge, domestic/EC20 (30 min): 500 - 1,040 mg/l

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

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Readily biodegradable (according to OECD criteria).

Bioaccumulative potential

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Assessment bioaccumulation potential

Significant accumulation in organisms is not to be expected.

Mobility in soil

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.

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.

13. Disposal considerations

Waste disposal of substance:

Observe national and local legal requirements.

Container disposal:

Dispose of in accordance with national, state and local regulations.

14. Transport Information

Land transport

USDOT

Hazard class: 8

Packing group: II

ID number: UN 2920

Hazard label: 8, 3

Proper shipping name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (contains FORMIC ACID, PROPIONIC ACID)

Sea transport

IMDG

Hazard class: 8

Packing group: II

ID number: UN 2920

Hazard label: 8, 3

Marine pollutant: NO

Proper shipping name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (contains FORMIC ACID, PROPIONIC ACID)

Air transport

IATA/ICAO

Hazard class: 8

Packing group: II

ID number: UN 2920

Hazard label: 8, 3

Proper shipping name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (contains FORMIC

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ACID, PROPIONIC ACID)

15. Regulatory Information

Federal Regulations

Registration status:

Feed TSCA, US released / exempt

Chemical TSCA, US released / listed

Chemical TSCA, US

All substances are TSCA listed and active.

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

EPCRA 313:

CAS Number

64-18-6

Chemical name

Formic Acid

CERCLA RQ

5000 LBS

CAS Number

64-18-6; 79-09-4

Chemical name

Formic Acid; propionic acid

State regulations

State RTK

NJ

CAS Number

64-18-6

Chemical name

Formic Acid

79-09-4

propionic acid

PA

64-18-6

Formic Acid

NFPA Hazard codes:

Health: 3

Fire: 2

Reactivity: 0

Special:

HMIS III rating

Health: 3

Flammability: 2

Physical hazard: 0

Assessment of the hazard classes according to UN GHS criteria (most recent version):

Flam. Liq.	3	Flammable liquids
Acute Tox.	4 (oral)	Acute toxicity
Acute Tox.	4 (Inhalation - vapour)	Acute toxicity
Acute Tox.	5 (dermal)	Acute toxicity
Skin Corr./Irrit.	1B	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
STOT SE	3 (irritating to respiratory system)	Specific target organ toxicity — single exposure

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2025/08/28

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