

Material Safety Data Sheet

Product name: Propineb 70% WP

Date of Issue: August 2021



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identification

Product name: Propineb 70% WP

Common name: Propineb

CAS No.: 9016-72-2

Chemical Name: ((2-((dithiocarboxy)amino)-1-methylethyl)carbamodithioato))(2--kS,kS')zinc

Recommended use of the chemical and restriction on use

Fungicide

Details of the manufacturer of the product

Manufacturer: Nantong Baoye Chemical Co., Ltd

Address: The 4th Haibin Road, Yangkou Chemical Industry Park, Coastal Economic Development Zone, Rudong, Jiangsu, 226407, China

Tel: +86-513-81958888, Fax: +86-513-68127777

P.C.: 226407

Supplier: Sinochem Agro Co., Ltd.

Address: No.567, BoCheng Road, Pudong New District, Shanghai, China

P.C.: 200125

SECTION 2: HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Acute toxicity:	Category 4
H332	Harmful if inhaled.
Skin sensitization:	Category 1
H317	May cause an allergic skin reaction.
Specific target organ toxicity - repeated exposure:	Category 2
H373	May cause damage to organs (Thyroid, Peripheral nervous system) through prolonged or repeated exposure if inhaled or swallowed.
Chronic aquatic toxicity:	Category 2
H411	Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

- Propineb

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Pictograms

Signal word: Warning

Hazard statements

- H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H373 May cause damage to organs (Thyroid, Peripheral nervous system) through prolonged or repeated exposure if inhaled or swallowed.
H411 Toxic to aquatic life with long lasting effects.
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements

- P260 Do not breathe dust or mist.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.
P391 Collect spillage.
P501 Dispose of contents/container as hazardous waste to an approved waste disposal plant.

2.3 Other hazards

May form explosible dust-air mixture if dispersed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Wettable powder (WP)

Propineb 700g/kg

Hazardous components

Hazard statements according to Regulation (EC) No. 1272/2008.

Name	CAS-No. / EC-No. / REACH Reg. No.	Classification	Conc. [%]
		REGULATION (EC) No 1272/2008	
Propineb	9016-72-2	Aquatic Acute 1, H400 Acute Tox. 4, H332 STOT RE 2, H373 Skin Sens. 1, H317	70
Other ingredients	/	/	Up to 100%

SECTION 4: FIRST AID MEASURES

General advice: Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

Inhalation: Move to fresh air. Keep patient warm and at rest. Call a physician or poison

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	control center immediately.
Skin contact:	Wash off thoroughly with plenty of soap and water, if available with polyethylene glycol 400, subsequently rinse with water. If symptoms persist, call a physician.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.
Ingestion:	Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth.
Symptoms:	Symptoms reinforced by alcohol (Antabuse effect).
Risks	This product is not a cholinesterase inhibitor.
Treatment:	Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Contraindication: atropine. There is no specific antidote. Follow-up measures: Strict abstinence from alcohol for 1 to 2 weeks, due to antabuse effect.

SECTION5: FIRE FIGHTING MEASURES

Extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture:

In the event of fire the following may be released:, Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Nitrogen oxides (NOx), Sulphur oxides

Special protective equipment for firefighters:

In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

Further information:

Contain the spread of the fire-fighting media. Do not allow run-off from firefighting to enter drains or water courses.

SECTION6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. Avoid dust formation.

Environmental precautions:

Do not allow to get into surface water, drains and ground water.

Methods and materials for containment and cleaning up:

Use mechanical handling equipment. Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal. Avoid dust formation.

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SECTION 7: HANDLING AND STORAGE

Advice on safe handling:	Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing. Avoid dust formation.
Advice on protection against fire and explosion:	Dust may form explosive mixture in air. Keep away from heat and sources of ignition. Take measures to prevent the buildup of electrostatic charge.
Hygiene measures:	Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).
Requirements for storage areas and containers:	Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only.
Advice on common storage:	Keep away from food, drink and animal feedingstuffs.
Specific end use(s):	Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Components	CAS-No.	Control parameters
Propineb	9016-72-2	0,2 mg/m ³ (SK-SEN)

Exposure controls:

Respiratory protection:	Wear respirator with a particle filter mask (protection factor 20) conforming to European Norm EN149FFP3 or EN140P3 or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.
Hand protection:	Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.
Eye protection:	Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

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- Skin and body protection:** Wear standard coveralls and Category 3 Type 4 suit. If there is a risk of significant exposure, consider a higher protective type suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.
- General protective measures:** If product is handled while not enclosed, and if contact may occur: Complete suit protecting against chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	powder
Color;	beige
Odor:	weak, characteristic
pH:	6.0 - 8.0
Flammability:	The product is not highly flammable.
Ignition temperature:	The product is not self-ignitable.
Water solubility:	dispersible
Partition coefficient:	Propineb: log Pow: < 3
n-octanol/water	

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Stable under normal conditions and non-self-heating.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid:	Extremes of temperature and direct sunlight.
Incompatible materials:	Acids. Store only in the original container.
Hazardous decomposition products:	Hydrogen sulfide, Carbon disulphide

SECTION 11: TOXICOLOGICAL INFORMATION

Acute oral toxicity:	LD50 (Rat) > 2.000 mg/kg
Acute inhalation toxicity:	LC50 (Rat) ca. 5,040 mg/l Determined in the form of a respirable fine dust.
Acute dermal toxicity:	LD50 (Rat) > 2.000 mg/kg
Skin corrosion/irritation:	No skin irritation (Rabbit)
Serious eye damage/eye irritation:	No eye irritation (Rabbit)
Respiratory or skin sensitization:	Skin: Sensitizing (Guinea pig) OECD Test Guideline 406, Magnusson & Kligman test

Assessment STOT Specific target organ toxicity – single exposure

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

Assessment STOT Specific target organ toxicity – repeated exposure

Propineb caused specific target organ toxicity in experimental animal studies in the following organ(s): Peripheral nervous system, Thyroid. Propineb caused Muscular weakness in animal studies. The observed effects do not appear to be relevant for humans.

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Assessment mutagenicity

Propineb was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Propineb caused an increased incidence of tumours in mice in the following organ(s): Liver. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

Assessment toxicity to reproduction

Propineb caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Propineb is related to parental toxicity.

Assessment developmental toxicity

Propineb did not cause developmental toxicity in rabbits. Propineb caused developmental toxicity in rats only at dose levels toxic to the dams. The developmental effects seen with Propineb are related to maternal toxicity.

Aspiration hazard

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

SECTION12: ECOLOGICAL INFORMATION

Toxicity to fish:	LC50 (<i>Oncorhynchus mykiss</i> (rainbow trout)) 6,7 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates:	EC50 (<i>Daphnia magna</i> (Water flea)) 4,7 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient propineb.
Chronic toxicity to aquatic invertebrates:	NOEC (<i>Daphnia</i> (water flea)): 0,0175 mg/l Exposure time: 21 d Test conducted with a similar formulation.
Toxicity to aquatic plants:	ErC50 (<i>Desmodesmus subspicatus</i> (green algae)) 2,4 mg/l Exposure time: 96 h Test conducted with a similar formulation.
Biodegradability:	Propineb: rapidly biodegradable
Koc:	18
Bioaccumulation:	Does not bioaccumulate.
Mobility in soil:	Mobile in soils.
PBT and vPvB assessment:	Propineb: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
Additional ecological information:	No other effects to be mentioned.

SECTION13: DISPOSAL CONSIDERATIONS

13.1 Product:

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In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

13.2 Contaminated package:

Not completely emptied packaging should be disposed of as hazardous waste.

SECTION14: TRANSPORT INFORMATION:

SANS 10231

UN number	3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PROPINEB MIXTURE)
Transport hazard class(es)	9
Packaging Group	III
Environm. Hazardous Mark	YES

IMDG

UN number	3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PROPINEB MIXTURE)
Transport hazard class(es)	9
Packaging Group	III
Marine pollutant	YES

IATA

UN number	3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PROPINEB MIXTURE)
Transport hazard class(es)	9
Packaging Group	III
Environm. Hazardous Mark	YES

SECTION 15: REGULATORY INFORMATION

WHO-classification: III (Slightly hazardous)

SECTION16: Other Information

The information contained within this Safety Data Sheet is in accordance with the guidelines

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established by Regulation (EU) 1907/2006 and Regulation (EU) 2015/830 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.