

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Propamocarb hydrochloride 722 g/l SL
Substance: Soluble concentrate of Propamocarb hydrochloride
Chemical name of active ingredient: Propamocarb hydrochloride IUPAC Name: propyl 3-(dimethylamino)propylcarbamate hydrochloride
Product Use: Agricultural Fungicide
Manufacturer: Spinochem Tech Co.,Ltd
Address: No.2278, Zhaochong Rd, Shanghai, China
Emergency telephone No.: + 86 21 5771 0105

2. HAZARDS IDENTIFICATION

Make sensitive in case of contact with skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Function	Content (g/l)
Propamocarb hydrochloride	25606-41-1	Active substance	722
Diethylene glycol	111-46-6	Antifreeze agent	65
Water	7732-18-5	Solvent	Up to 1L

4. FIRST AID MEASURES

If in Eyes:

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.

If in Skin:

Wash off with soap and water. If symptoms persist, call a physician.

If Inhaled:

Move the victim to fresh air and keep at rest. Keep patient warm and at rest. If symptoms persist, call a physician.

If Swallowed:

Do NOT induce vomiting. Rinse mouth. Call a physician or poison control center immediately.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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

Specific hazards during fire fighting

In the event of fire the following may be released: Carbon monoxide (CO), Hydrogen chloride (HCl), Nitrogen oxides (NO_x).

Advice for fire-fighters

Wear self-contained breathing apparatus and protective suit. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Avoid contact with spilled product or contaminated surfaces. Whenever possible, contain fire-fighting water by diking area with sand or earth. Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions

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

Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Please use the personal protection equipment specified under Section 8.

Do not eat or drink while using. Prevent the contact with mouth, skin and eyes. Do not inhale. Wash your hands after using. Other security precautions are not

required except of stated warnings during using the closed package. Use only in rooms, in which there is a local sucking device.

Conditions for safe storage, including any incompatibilities

Keep in original package in cool, dry and well-ventilated places. Keep away from food and animal feed items. Keep away from direct sunlight. Keep against freezing. Keep it in places that children cannot reach. Storage temperature 0-30 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection equipment

Respiratory Protection

Use respiratory apparatuses compliant with EN 149:2001. Any respiratory protection apparatus should only be used for short term operations, as a part of risk minimization measures, e.g. in case of local ventilation. Comply with operation instructions and warnings of the manufacturer during use of respiratory protection apparatuses.

Skin Protection

Use protective clothing and appropriate gloves. Use 2 layers of clothing, if possible. Use CE marked Nitrile Rubber (min. 0.40 mm thick). Contaminated gloves should be washed. Any gloves that cannot be cleaned inside and outside should be disposed.

Eye Protection

Use eye protection equipment compliant with EN 166.

Other Information

Follow all label instructions. Train employees in safe use of the product. Follow manufacturer's instructions for cleaning/maintaining personal protection equipment. Keep and wash personal protection equipment separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	colourless to light yellow liquid
Odor:	slightly perceptible
Boiling point:	100 °C

Density:	1.09 g/cm ³ (20 °C)
Water Solubility:	completely miscible
pH value:	2.0 - 4.0 at 100 % (23 °C)
Flash point:	> 100°C

10. STABILITY AND REACTIVITY

Reactivity

Stable under standard conditions.

Chemical stability

Stable under standard conditions.

Possibility of hazardous reactions

No hazardous reactions known

Incompatible materials

Incompatible with alkaline materials.

Hazardous decomposition products

No decomposition products expected under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: LD₅₀ for rats : >2,000 mg/kg

Acute Dermal Toxicity: LD₅₀ for rats : >3,000 mg /kg

Acute Inhalation: LC₅₀ (4h) for rats : >5.95 mg/l

Eye Irritation: No eye irritation (rabbits)

Skin Irritant: No skin irritation (rabbits)

Skin sensitization: Sensitising (Mouse)

12. ECOLOGICAL INFORMATION

Birds: Dietary LC₅₀ > 2000 mg/l diet Bobwhite quail and mallard duck

Fish: LC₅₀ (96h) for *Salmo gairdneri* > 140 mg/l

Daphnia: EC₅₀ (48h) > 140 mg/l

Algae: ErC₅₀ (72h) for *Selenastrum capricornutum* 182 mg/l

Other aquatic plants: ErC₅₀ for *Lemna Gibba* 5940 mg/l

Worm: LC₅₀ (14 days) >1000 mg/kg earth

13. DISPOSAL CONSIDERATIONS

Product waste disposal

Do not dispose it together with household wastes. Waste residue should not be spilled into wastewater canals. Any product wastes should be disposed of in compliance with Hazardous Wastes Control Regulations.

Packing waste disposal

Empty containers should not be used for other products. Completely emptied and rinsed containers should be disposed in compliance with regulations. Non-clearable containers should be disposed of as hazardous materials.

14. TRANSPORT INFORMATION

According to national and international transport regulations not classified as dangerous goods.

15. REGULATORY INFORMATION

Safety Phrases:

S 24 : Avoid contacting with skin.

S 36/37 : Use appropriate protective clothes, gloves

16. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.