

MATERIAL SAFETY DATA SHEET

TYFOS 722 SL

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product name: Propamocarb hydrochloride 722 g/l SL

Chemical name: Propyl 3-(dimethylamino) propylcarbamate hydrochloride

Product family: Carbamate

Company identification:

JIANGSU LANFENG BIOCHEMICAL CO., LTD.

Suhua Road, Xinyi Economic & Technological Development Zone, Jiangsu, China

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Concentration
Propamocarb hydrochloride	25606-41-1	722 g/l
Inerts	---	Balance

SECTION 3 – HAZARDS IDENTIFICATION

Primary Routes of Exposure: Inhalation, Skin Contact, and Eye Contact.

Inhalation: Inhalation of dust can cause the following: irritation of nose and throat.

Eye Contact: Direct contact with material may cause irritation.

Skin Contact: Prolonged or repeated skin contact may cause skin irritation

SECTION 4 – FIRST AID MEASURES

Inhalation: Move subject to fresh air.

Eye Contact: Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.

Skin Contact: Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists. Remove and wash contaminated clothing thoroughly. Do not take clothing home to be laundered.

Ingestion: If swallowed, give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

SECTION 5 – FIRE FIGHTING MEASURES

Flammability: Non-flammable solid

Extinguishing media: Water spray, carbon dioxide, foam, dry agent.

Special fire fighting procedures: Wear full protective equipment and breathing protection. Avoid creating significant airborne dust. Spray unopened containers with water to keep cool. Contain fire-fighting water by bunding area with sand or earth to prevent it entering any bodies of water. Dispose of fire control extinguishing agent and spillage later in safe manner.

Unusual fire and explosion hazards: Toxic gases including carbon monoxide, carbon dioxide, oxides of nitrogen, hydrochloride and smoke.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled material or contaminated surfaces. Do not smoke, eat or drink during the clean process. Wear personal protective clothing and equipment. Prevent spilled material from entering drains or watercourses. Contain spill. Transfer collected material to drums. Seal and label them for safe disposal. Deal with all spillages immediately.

SECTION 7 – HANDLING AND STORAGE

Handling product: Keep out of reach of children. Avoid contact with eyes and skin and avoid inhalation of product. If product on skin, immediately wash area with soap and water.

Storage: Store in the closed, original container in a dry, cool, secure, well-ventilated area. Do not store for prolonged periods in direct sunlight. Protect from frost.

SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

Eye protection: Safety goggles or face shield.

Skin protection: Cotton overall buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves.

Respiratory protection: Respiratory protection is not normally required. If airborne concentrations are likely to exceed the exposure standards above, an approved respirator should be worn.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to pale yellow liquid

Boiling point: Not available

Vapor pressure (mPa): Not available

Specific Gravity: 1.05~1.20

Solubility (g/l): Miscible with water (20°C)

Molecular formula: C₉H₂₁ClN₂O₂

Molecular weight: 224.73

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.

Incompatibility with other materials: Oxidizing agents and moisture.

Hazard decomposition: Toxic compounds of carbon, nitrogen and chloride may be given off when exposed to extreme heat or fire.

Hazardous polymerization: Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute: Oral LD₅₀ for rat: 2330 (M), 1710 (F) mg/kg; Dermal LD₅₀ for rat: > 2000 mg/kg

Inhalation LC₅₀ - rat: > 2.0 mg/L for 4 hr.

Skin irritation - rabbit: Non-irritating;

Eye Irritation - rabbit: Non-irritating

SECTION 12 – ECOLOGICAL INFORMATION

Effects on birds: Acute oral LD₅₀ for bobwhite quail > 2000, and mallard duck > 2000 mg/kg.

Effects on fish: LC₅₀ (96 h) for rainbow trout and bluegill sunfish >90 ppm.

Effects on other organisms: Bees: Acute LD₅₀ (contact) > 100 µg/bee. Daphnia: LC₅₀ (48 h) . 106 mg/l.

SECTION 13 – DISPOSAL CONSIDERATION

For disposal, incinerate this material at a facility that complied with local, state and country regulations.

SECTION 14 – TRANSPORT INFORMATION

Not regulated as dangerous cargo.

SECTION 15 – REGULATORY INFORMATION

Not regulated.

SECTION 16 – OTHER INFORMATION

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