

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Propamocarb Hydrochloride 625G/L + Fluopicolide 62.5G/L SC
Other name: /
Recommended use of the chemical and restrictions on use Fungicide.
Supplier name: Shandong Weifang Rainbow Chemical Co., Ltd.
Supplier address: Binhai Economic Development Area, Weifang, Shandong, China

Supplier phone: +86-531-88875222, 88875231
Supplier fax: +86-531-88875232, 88875224
Emergency phone number: +86-531-88875222

2. COMPOSITION / INFORMATION ON INGREDIENTS

Classification of the substance or mixture

Hazard Class	Category	Hazard Statement Number
Acute Oral Toxicity	4	H302
Acute Dermal Toxicity	5	H313
Skin Corrosion/Irritation	2	H315
Skin sensitization	1	H317
Aquatic Toxicity Acute	2	H401
Aquatic Toxicity Chronic	2	H411

GHS Label elements, including precautionary statements:



Signal word: WARNING

Hazard statement(s):

H302: Harmful if swallowed
 H313: May be harmful in contact with skin
 H315: Causes skin irritation
 H317: May cause an allergic skin reaction
 H401: Toxic to aquatic life
 H411: Toxic to aquatic life with long lasting effects.

Precautionary statement(s):

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264: Wash face, hands and contact areas thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing.
 P301 + P317: IF SWALLOWED: Get medical help.
 P302 + P317: IF ON SKIN: Get medical help.
 P302 + P352: IF ON SKIN: Wash with plenty water.
 P321: Specific treatment.

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P330: Rinse mouth.

P332 + P317: If skin irritation occurs: Get medical help.

P333 + P317: If skin irritation or rash occurs: Get medical help.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P39:1Collect spillage.

P501: Dispose of contents/container in accordance with local/regional/national/international Regulations.

3. HAZARDS IDENTIFICATION

Chemical Name	Concentration (%)
Fluopicolide	5.5
Propamocarb hydrochloride	55.3
Other	Balance

4. FIRST AID MEASURES

INHALATION: Move the victim to fresh air and keep at rest. If symptoms persist, call a physician.

SKIN Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400,

CONTACT: 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. Rinse mouth, ingest activated charcoal. Call a physician or poison control center immediately..

NOTE TO DOCTOR: Treat symptomatically. Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate. There is no specific antidote. Contraindication: atropine.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

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

UNSUITABLE High volume water jet

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE In the event of fire the following may be released:, Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Hydrogen fluoride, Carbon monoxide (CO), Nitrogen oxides (NOx)

SPECIAL FIRE FIGHTING METHODS: 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 fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE: Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly,

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observing environmental regulations. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

HANLDING: Advice on protection against fire and explosion No special precautions required. Hygiene measures Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Shower or bathe at the end of working. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

STORAGE: 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. Keep away from direct sunlight. Protect from frost..

Incompatible substances and mixtures: Refer to product label.

Packaging material: HDPE plastic containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

INGESTION: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

EYE PROTECTION: Use safety glasses (with side shields).

SKIN PROTECTION: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur

RESPIRATOR: A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color etc.):	suspension / beige
Odor:	ester-like
Odor threshold:	No data available
pH:	7 at 10 g/l (23 °C)
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	Not flammable
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	1.13 g/cm ³ at 20 °C
Solubility(ies):	Dispersible in water
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

10. STABILITY AND REACTIVITY

CONDITIONS TO Extremes of temperature and direct sunlight.

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AVOID:

CHEMICALSTABIL Thermal decomposition Stable under normal conditions.

ITY:

HAZARDOUS No decomposition products expected under normal conditions of use.

DECOMPOSITION

PRODUCTS:

11. TOXICOLOGICAL INFORMATION

Acute health effects:

Exposure routes: Skin contact, Skin Absorption, Ingestion.

Ingestion: Harmful if swallowed.

Inhalation: Harmful if inhalation.

Numerical measures of toxicity:

Acute oral LD50:	827.6 mg/kg
Acute dermal LD50:	3277.6 mg/kg
Acute inhalation LC50:	8.26 mg/l
Skin irritation:	Category 2
Eye irritation:	Non-irritating
Skin sensitization:	Category 1
Germ cell mutagenicity:	Not available
Carcinogenicity:	Not available
Reproductive toxicity and Developmental toxicity:	Not available
Specific target organ toxicity (single exposure):	Not available
Repeated dose toxicity and Specific target organ toxicity (repeated exposure):	Not available
Aspiration hazard:	Not available

Chronic health effects:

Not available

12. ECOLOGICAL INFORMATION

TOXICITY TO FISH: LC50 (Oncorhynchus mykiss (rainbow trout)) 6.6 mg/l Exposure time: 96 h

TOXICITY TO AQUATIC INVERTEBRATES: LC50 (Water flea (Daphnia magna)) > 100 mg/l Exposure time: 48 h

TOXICITY TO AQUATIC PLANTS: EC50 (Pseudokirchneriella subcapitata) > 100 mg/l Exposure time: 72 h

TOXICITY TO AQUATIC PLANTS: EC50 (Navicula pelliculosa (diatom algae)) 0,63 mg/l Exposure time: 72 h

13. DISPOSAL CONSIDERATIONS

It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times. Add washings to sprayer at time of filling. Dispose of empty and cleaned packaging safely. Follow advice on product label and/or leaflet.

14. TRANSPORT INFORMATION

UN number: 3082

Product Name: Propamocarb hydrochloride 625G/L + Fluopicolide 62.5G/L SC

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Road Transport ADR/IRD:

Class: 9

Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

Maritime Transport IMDG/IMO:

Class: 9

Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

Marine Pollutant (Y/N): yes

Air transport IATA/ICAO:

Class: 9

Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

Special/Environmental Precautions: None known.

15. REGULATORY INFORMATION

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given.

Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and /or local laws.

16. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

This version revised in 20220523.