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MATERIAL SAFETY DATA SHEET OF

Propargite 73% EC

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product name: Propargite 73% EC

Supplier: Shanghai Bosman Industrial Co., Ltd

Street address: Rm. 1804 No. 1611, North Sichuan Road, Hongkou, Shanghai R.P. China

Tel: + 86 21 63065878

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2. HAZARDS IDENTIFICATION

Emergency Overview

Physical Description & colour : Clear light brown liquid.

Odour: Characteristic odour.

Major Health Hazards: Adequate data are not available to fully assess the toxicity of Propargite. While, in general, Propargite is not highly toxic it is a primary eye and skin irritation. Harmful in contact with skin, and if swallowed, eye irritant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type: Emulsifiable concentrate (EC)

Composition

INGREDIENTS	CAS NO	PROPORTION
Propargite	2312–35–8	73% min
others	Not available	Balance

Other ingredients determined not to be hazardous

4. FIRST AID MEASURES

Swallowing Call local emergence Number or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor.

Do not give anything by mouth to an unconscious person.

Inhalation Move person to fresh air. If person is not breathing, call local emergence Number or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Skin contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call local emergence Number or doctor for treatment advice.

Eye contact Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye. Call local emergence Number or doctor for further treatment advice.

5. FIRE FIGHTING MEASURES

Flash point : NA

Upper Flammability Limit: NA

Lower Flammability Limit: NA

Autoignition temperature: NA

Fire and Explosion Hazards : There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Violent steam generation or eruption may occur upon application of direct water stream on hot liquids.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media : Try to contain spills, minimise spillage entering drains or water courses.

Fire Fighting : If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus.

6. ACCIDENT RELEASE MEASURES

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including face mask, face shield and gauntlets. All skin areas should be covered. See above under Personal Protection. Suitable materials for protective clothing include rubber, PVC. Stop leak if

safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Because of the environmentally hazardous nature of this product, special care should be taken to restrict release to waterways or drains. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services.

7. HANDLING AND STORAGE

Precautions to be taken in handling: Keep container closed when not in use. Handle and open container in a manner as to prevent spillage. Do not contaminate water, food or feed by storage, disposal or by cleaning equipment. Do not reuse empty container.

Precautions to be taken in storage: Store in a tightly closed container in a cool, dry place. Do not contaminate water, food or feed by storage or disposal.

Storage temperature: Normal ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that vapours and mists are minimised.

Eye Protection: Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

Skin Protection: Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

Protective Material Types: We suggest that protective clothing be made from the following materials: rubber, PVC.

Hand protection: Chemical-resistant gloves, such as barrier laminate or butyl rubber≥14 mils.

Respiratory requirement: In areas with inadequate ventilation a approved chemical cartridge respirator with organic vapor cartridges and pesticide pre-cartridges or a self-contained breathing apparatus

may be required when working with this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Light brown liquid.

Odour: Characteristic odour.

pH: 5.4

Density: NA

Solubility: Emulsifiable in water

10. STABILITY AND REACTIVITY

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: This product should be kept in a cool place, preferably below 30°C. Containers should be kept dry.

Incompatibilities: strong acids, strong bases, strong oxidising agents.

Fire Decomposition: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product is unlikely to undergo polymerisation processes.

11. TOXICOLOGICAL IMFORMATION

Acute toxicity:

Oral Acute oral LD50 for rats 2843 mg/kg.

Skin and eye Acute percutaneous LD50 for rabbits >4000 mg/kg.

Severe eye and skin irritant to rabbits.

Not a skin sensitiser to guinea pigs.

Inhalation LC50 (4 h) for rats 0.05 mg/l.

Chronic toxicity:

NOEL (1 y) for dogs 4 mg/kg b.w. daily; LOAEL (2 y) for SD rats 3 mg/kg b.w. daily, based on occurrence of jejunal tumours. Tumours not seen in Wistar rats or mice. NOAEL (28 d) for SD rats 2 mg/kg b.w., indicating that cell proliferation is the cause of carcinogenicity and that there is a threshold dose; therefore, carcinogenicity is species and strain specific.

Other

Not genotoxic. Acute i.p. LC50 for male rats 260, female rats 172 mg/kg.

12. ECOLOGICAL IMFORMATION

Birds Acute oral LD50 for mallard ducks >4640 mg/kg. Dietary LC50 (5 d) for mallard ducks >4640, bobwhite quail 3401 mg/kg diet.

Fish LC_{50} (96 h) for rainbow trout 0.043, bluegill sunfish 0.081 mg/l.

Daphnia LC_{50} (48 h) 0.014 mg/l.

Algae LC_{50} (96 h) for Selenastrum capricornutum >1.08 mg/l (no effects at highest test concentration). Other aquatic spp. LC50 (96 h) for grass shrimps 0.101, Quahog clam embryo larvae 0.110 mg/l.

Bees LD_{50} (48 h, contact) 47.92 µg/bee; (oral) >100 µg/bee.

Worms LC_{50} (14 d) for Eisenia foetida 378 mg/kg soil.

Other beneficial spp. No adverse effects on Amblyseius andersoni, Orius laevigatus or Trichogramma cacoeciae, following exposure to field-aged residues after 1 week, 1 day and 1 day, respectively (hence no long-term impact expected on natural populations). No adverse effects on Chrysoperla carnea, following exposure to fresh residues on leaf material.

13. DISPOSAL CONSIDERATION

Product disposal: Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsates is a violation of Federal law. Ensure that the disposal is in compliance with federal requirements and state or local regulations.

Container disposal: Triple rinse (or equivalent) and dispose of in an incinerator or landfill approved for

pesticide containers.

14. TRANSPORT INFORMATION

UN Number: 3082

UN Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (propargite)

Transport hazard class: 9

Packing group: III

15. REGULATARY INFORMATION

Follow all local and international laws, regulations.

16. OTHER INFORMATION

Version: 1.0

Issue date: Oct. 10, 2021

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact the company.

--END OF MSDS --