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MATERIAL SAFETY DATA SHEET OF

PYRITHIOBAC-SODIUM 95% TC

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: Shanghai Bosman Industrial Co., Ltd.

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

FAX: +86 21 63065878

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Product name: Pyrithiobac-sodium 95% TC

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type: Technical material (TC)

IUPAC name: sodium 2-chloro-6-(4,6-dimethoxypyrimidin-2-ylthio)benzoate

Other ingredients determined not to be hazardous

INGREDIENT	CAS NO	PROPORTION
Pyrithiobac-sodium	123343 - 16 - 8	≥95%
others	Not hazardous	Up to 100%

3. HAZARDS INDENTIFICATION

Classification of the substance or mixture

Eye Irrit. 2A H319 Causes serious eye irritation.

Label elements

GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms

Signal word Warning

Hazard statements

Causes serious eye irritation.

Precautionary statements

Wash thoroughly after handling.

Wear eye protection / face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

4. FIRST AID MEASURES

General Information: Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

If inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical treatment immediately.

If skin contact: Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Seek medical treatment immediately

If eye contact: Immediately flush open eyes with running water for at least 15 minutes. Seek medical treatment immediately

If ingestion: Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Seek medical treatment immediately.

Advice to Doctor: No specific antidote. Treatment symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Specific hazards arising from the chemical: Carbon oxides, Hydrogen chloride, Nitrogen oxides, sodium oxides, Sulfur oxides.

Advice for firefighters: If on fire, wear a NIOSH-approved or equivalent, pressure-demand,

self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. ACCIDENT RELEASE MEASURES

Personal precautions: Do not inhale fumes. Avoid contact with skin, eyes or clothes. Ventilate area of spill or leak, especially confined areas. For personal protection see Section 8.

Environmental precautions: Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

Occupational spill: Do not touch-spilled material; stop leak if you can do it without risk. Keep out unprotected persons and animals. For spills: Soak up with absorptive material such as damp earth or sand or other suitable non-combustible absorbent material. Place the material into a clean, dry Skin contact: Moderate irritant to skin. Harmful if absorbed through the skin. Prolonged of frequent repeated skin contact may cause allergic reactions in some individuals. Decomposition products may be corrosive.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

Storage: Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

OSHA PEL: Not available.

NIOSH REL: Not available.

ACGIH TLV: Not available.

Appropriate engineering controls: Use adequate general and local exhaust ventilation to keep airborne. Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the

product. concentrations low.

Personal protection

Eyes: Based on an evaluation of the eye or face hazards present, wear chemical splash-resistant safety glasses or goggles with side protection. A face shield may be appropriate in some workplaces. Use eyewear tested and approved under appropriate government standards such as OSHA 29 CFR 1910.133 or EU EN166.

Hands: Wear gloves selected based on an evaluation of the possible hazards to hands and skin, the duration of use, the physical conditions of the workplace, and the chemical resistance and physical properties of the glove material.

Skin and body: Protective clothing must be selected based on the hazards present in the workplace, the physical environment, the duration of exposure, and other factors. No fabric can provide protection against all potential hazards; therefore it is important to select the appropriate protective clothing for each specific hazard. At the minimum, wear a laboratory coat and close-toed footwear.

Respiratory: Respirators are not a substitute for accepted engineering control measures such as enclosure or confinement of the operation, general and local ventilation, and substitution of less toxic materials. When respiratory personal protective equipment is appropriate based on an assessment of respiratory hazards in the workplace, use a NIOSH- or CEN-certified respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow or off-white powder

Odor: NA

pH: 6.0-9.0

Solubility: In water 264 (pH 5), 705 (pH 7), 690 (pH 9), 728 (unbuffered) (all in g/l, 20 ° C).

Flash point: NA

10. STABILITY AND REACTIVITY

Reactivity: Not available.

Chemical stability: Stable under recommended temperatures and pressures.

Possibility of hazardous reactions: Not available.

Conditions to avoid: Dust generation.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Carbon oxides, Hydrogen chloride, Nitrogen oxides, Sodium

oxides, Sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (For Pyrithiobac-sodium **TC):**

Acute oral: LD_{50} for male rats 3300, female rats 3200 mg/kg.

Acute skin and eye toxicity: Acute percutaneous LD50 for rabbits >2000 mg/kg.

Acute skin irritation toxicity: Non-irritating to skin;

Acute eye irritation toxicity: irritating to eyes (rabbits).

Acute Inhalation toxicity: LC_{50} (4 h) for rats >6.9 mg/l.

Chronic toxicity:

NOEL (2 y) for male rats 58.7, female rats 278 mg/kg b.w. daily; (78 w) for male mice 217, female mice 319 mg/kg b.w. daily.

Other

Non-mutagenic. Non-teratogenic (rats and rabbits). Non-oncogenic (rats).

12. ECOLOGICAL INFORMATION

Birds Acute oral LD_{50} for bobwhite quail >2250 mg/kg b.w. Dietary LC_{50} (5 d) for mallard ducks and bobwhite quail >5620 mg/kg diet.

Fish LC_{50} (96 h) for bluegill sunfish >930, rainbow trout >1000, sheepshead minnows >145 mg/l. **Daphnia** LC_{50} (48 h) >1100 mg/l.

Algae EC_{50} (5 d) for Selenastrum capricornutum 107 μg/l; NOEC for Selenastrum capricornutum 22.8 μg/l.

Other aquatic spp. LC_{50} (96 h) for Crassostrea virginica >130 mg/l.

Bees LD_{50} (48 h, contact) >25 μg/bee.

13. DISPOSAL CONSIDERATION

Pesticide disposal: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. This product is considered a marine pollutant.

Comply with local legislation applying to waste disposal.

Container disposal: Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed. TRIPLE RINSE empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner. Do not re-use the empty container for any other purpose but destroy it by perforation and flattening and bury in an approved dumpsite. Prevent contamination of food, feedstuffs, drinking water and eating utensils. Comply with local legislation applying to waste disposal.

14. TRANSPORT INFORMATION

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contain Pyrithiobac-sodium)

UN Number: 3077

Classification: 9

Packing group: III

15. REGULATORY INFORMATION

Follow all local and international laws and regulations.

16. OTHER INFORMATION

Version: 1.0

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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 ---