SHANGHAI BOSMAN INDUSTRIAL CO., LTD.
Add: Room 1804, No.1611, North Sichuan Road, Hongkou District, Shanghai, P.R. China.
Tel: +86 21 63065878 | **Fax:** +86 21 63065878 | **E-mail:** info@bosmangroup.com
Website: www.bosmanagrochem.net

Version: 1.0 Issue date: Oct. 10, 2020

MATERIAL SAFETY DATA SHEET OF

PIRIMIPHOS-METHYL 90% TC

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product name: Pirimiphos-methyl 90% TC

Supplier: Shanghai Bosman Industrial Co., Ltd

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

Tel: + 86 21 63065878

Fax: + 86 21 63065878

2. HAZARDS INDENTIFICATION

Physical hazards Not classified.

Health hazards

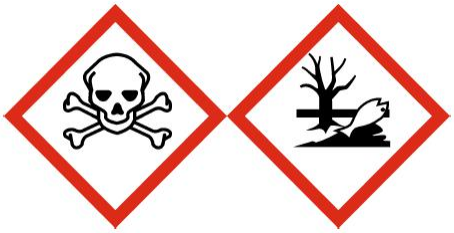
Acute toxicity, oral	Category 4
Acute toxicity, dermal	Category 4
Acute toxicity, inhalation	Category 3

Environmental hazards

Hazardous to the aquatic environment, acute hazard	Category 1
Hazardous to the aquatic environment, long-term hazard	Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Harmful if swallowed. Harmful in contact with skin. Toxic if inhaled. Very toxic to aquatic life. Very

toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention Avoid breathing vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing.

Response If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor. Specific treatment (see this label). Take off contaminated clothing and wash before reuse. Collect spillage.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

3.COMPOSITION/INFORMATION ON INGREDIENTS

Formulation: Technical grade (TC)

IUPAC name:

Other ingredients determined not to be hazardous

INGREDIENT	CAS NO	PROPORTION(%, w/w)
Pirimiphos-methyl	29232-93-7	90 min
Other ingredients	--	Up to 100%

4. FIRST AID MEASURES

General In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

If inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration as needed. Get immediate medical advice/attention. Call a POISON CENTER or doctor/physician.

If skin contact : Wash off with soap and plenty of water. Call a POISON CENTER or

doctor/physician if you feel unwell.

If eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

If ingestion: Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Advice to doctor: Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media :Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Fire hazard : During fire, gases hazardous to health may be formed.

Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENT RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes. Do not breathe dust, fume, vapours, mist, spray.

Conditions for Safe Storage: Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat and direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits This substance has no PEL, TLV, or other recommended exposure limit.

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear eye/face protection. If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection Wear protective gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Color : Light brown

Odor : NA

pH : 8.0-11.0

Flash point: NA

Melting Point: NA

Corrosive: NA

Oxidisation: NA

10. STABILITY AND REACTIVITY

Reactivity The product is stable and non-reactive under normal conditions of use, storage

and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Peroxides. Phenols.

Hazardous decomposition Products No hazardous decomposition products are known.

11. TOXICOLOGICAL

Acute toxicity

Oral Acute oral LD50 for rats 1414, mice 1180 mg/kg.

Skin and eye Acute percutaneous LD50 for rats >2000 mg/kg.

Skin and eye irritation Slight skin and mild eye irritation (rabbits).

Skin sensitization Mild skin sensitiser (guinea pigs).

Inhalation LC50 (4 h) for rats >5.04 mg/l (gravimetric).

Chronic toxicity

NOEL (2 y) for rats 0.4, dogs 0.5 mg/kg b.w. daily. No teratogenic effects, and no concentration in adipose tissue.

12. ECOLOGICAL INFORMATION

Birds Acute oral LD50 for bobwhite quail 40, Japanese quail 140, mallard ducks 1695 mg/kg.

Fish LC50 (96 h) for rainbow trout 0.64 mg/l; (48 h) for mirror carp 1.4 mg/l.

Daphnia EC50 (48 h) 0.21 μg/l; (21 d) 0.08 μg/l.

Algae EC50 1.0 mg/l.

Bees LD50 (oral) 0.22 μg/bee; (contact) 0.12 μg/bee.

Worms LC50 (14 d) 419 mg/kg.

13. DISPOSAL CONSIDERATION

Triple rinse container and add rinsate to spray tank, burn, if circumstances, especially wind direction permit, otherwise dispose of at an approved landfill. Dispose of this product only by using in accordance with label directions. Dispose of liquid contaminated material/or contaminated soil in an approved landfill. Disposal must be in accordance with applicable

local regulations.

14. TRANSPORT INFORMATION

DOT

UN number : 3082

Proper shipping name : Environmentally hazardous substances, liquid, n.o.s. (Pirimiphos-methyl)

Class : 9

Packing group : III

IATA

UN number : 3082

Proper shipping name : Environmentally hazardous substances, liquid, n.o.s. (Pirimiphos-methyl)

Class : 9

Packing group : III

Marine pollute: Yes

IMDG

UN number : 3082

Proper shipping name : Environmentally hazardous substances, liquid, n.o.s. (Pirimiphos-methyl)

Class : 9

Packing group : III

15. REGULATORY INFORMATION

Follow all local, international decree, regulation and laws.

16. OTHER INFORMATION

Version: 1.0

Issue date: Oct. 10, 2020

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 --