



Phoxim---MATERIAL SAFETY DATA SHEET

Supplier information:

Shenzhen Golden Union Agrochemical Export & Import Co., Ltd.

Add: Rm 1106, Tower 3A, Excellence Century Center, Fuhua 3rd Rd, Futian District, 518000,
Shenzhen City, Guangdong Province, China

Tel: +86 755 2391 0527 Fax: +86 755 8255 9247

Email: bella@szgoldenunion.com

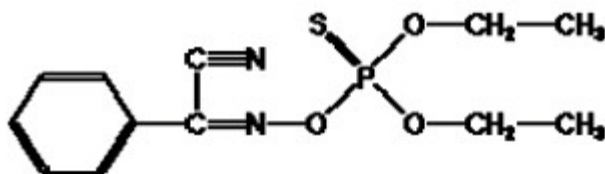
1. Chemical Product Identification

Product Name: Phoxim

Molecular Formula: C₁₂H₁₅N₂O₃PS

Molecular Weight: 298.3

Structural Formula:



Chemical Name: O,O-Diethyl O-(alpha-cyanobenzylideneamino)phosphorothioate

Form: Liquid

Appearance: light yellow to brown red oil liquid

Odor: Weak

CAS No.: 14816-18-3



2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Phoxim	14816-18-3	92.0
Other ingredients		8.0

3. Hazards Identification

Poisonous, could be fatal if inhaled, swallowed or absorbed through skin. Contact could cause burns to skin and eyes. Runoff from firecontrol or dilution water could give off poisonous gases and cause water pollution. Fire could produce irritating or poisonous gases.

4. First Aid Measures

Skin: Immediately remove contaminated clothing, including shoes. Wash affected area with plenty of water for at least 20 minutes. Speed in removing liquid from skin is of prime importance

Eye: Flush eyes with water for 15 minutes. Hold eyelids open while washing.

Ingestion: Seek immediate medical advice. Symptoms of poisoning include bleeding in the brain and eye ball, blood in the urine, anaemia and shock. Vitamin K is antidotal. In serious cases blood transfusion may be required

Inhalation: Immediately remove to fresh air. If not breathing give artificial respiration. If breathing of victim is difficult administer oxygen for a maximum period of one hour.



Have victim lie down and keep warm.

5. Fire-Fighting Measures

Small fires: Dry chemical, CO₂, water spray or standard foam.

Large fires: Water spray, fog or standard foam is recommended. Move container from fire area if you can do it without risk. Fight fire from maximum distance. Stay away from ends of tank. Dike fire control water for later disposal; do not scatter the material. Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas, and ventilate closed spaces before entering. Positive-pressure self-contained breathing apparatus (SCBA) and chemical protective clothing that is specifically recommended by the shipper or manufacturer may be worn. It will provide little or no thermal protection. Structural fire fighter's protective clothing is not effective with these materials. Remove and isolate contaminated clothing at the site.

6. Accidental Release Measures

Full protective clothing including breathing apparatus. Contain (avoid spillage from entering drains or water courses)

Precautions: Restrict access to area. Provide adequate protective equipment and ventilation. Remove sources of heat and flame. Notify occupational and environmental authorities.

Spill or leak: Do not touch spilled material. Do not empty into drains. Sweep up wet binder without generating dust. Stop leak if you can do it without risk.



Small spills: Take-up with sand or other non-combustible absorbent material and place into containers for later disposal.

Small dry spills: With clean shovel place material into clean, dry container and cover; move container from spill area.

Large spills: Dike far ahead of liquid spill for later disposal. Fill materials into sealable container. Use water and detergents to clean floor and all objects contaminated by this material.

7. Handling and Storage

Store below 40 °C. Keep dry. Store away from food, drink, feeds, children, pets and uninformed persons. Store away from odorous substances. Handle product using rubber glove. Avoid contact with eyes and skin. Wash hands after use. Protect against fire and explosion.

8. Exposure Controls/Personal Protection

Controls: The control measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Use a non-sparking, grounded ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside. Supply sufficient replacement air to make up for air removed. Have a safety shower/eye wash fountain readily available in the immediate work area. Personal protection: Handle product using rubber gloves. Avoid contact with



eyes and skin. Wash hands after use.

9. Physical and Chemical Properties

Melting point: 5-6°C

Boiling point: 120°C/0.01mmHg

Relative density: 1.176 at 20°C

Vapor pressure: 13.33mPa

Solubility: in water 7mg/L at 20°C; Soluble in most organic solvents

10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials. None reasonably foreseeable.

Polymerization: Polymerization will not occur.

11. Toxicological Information

Acute oral LD50 for rat: >2g/kg

Acute dermal LD50 for rat: >5000µg/kg

Acute inhalation (4h) LD50 for rat: >4.0mg/L

12. Ecological and Ecotoxicological Information

LD50 (5d) for chicken: 40mg/kg

LC50 (96h) for blugill: 0.22mg/l



LC50 (96h) for rainbow trout: 0.53mg/l

LC50 (96h) for daphnia magna: 0.00081mg/l

13. Disposal Considerations

Disposal method product: May be transported to a controlled incinerator if local regulations permit.

Disposal method packaging: Flatten, perforate and bury empty container.

14. Transport Information

Not applicable.

15. Regulatory Information

Not applicable.

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way



come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.