



SAFETY DATA SHEET

1. IDENTIFICATION

Chemical Product: SuffOil-X®

General Use: Spray Oil Emulsion Fungicide, Insecticide and Miticide

Manufactured For: BioWorks, Inc.
100 Rawson Rd, Suite 205
Victor, NY 14564

Emergency Phone Numbers:

BioWorks, Inc.: (800) 877-9443

CHEMTREC (24-Hour Emergency Number): (800) 424-9300 (USA and Canada)

EPA National Response Center: (800) 424-8802

2. HAZARDS IDENTIFICATION

White emulsion with ammonia odor. Harmful if swallowed. Avoid contact with strong oxidizers. May generate carbon monoxide if burned. Product is toxic to fish. Not D.O.T. regulated.

HEALTH: 1 REACTIVITY: 0 FLAMMABILITY: 1 ENVIRONMENT: 0

(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name: Petroleum horticultural oil mixture.

Chemical Description: Hydrotreated light paraffinic distillate mixture.

TSCA/CAS No.: This product is a mixture.

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Light Paraffinic Distillate	64742-55-8	80.0	*N.A.	*N.P.

Inert Ingredients – Proprietary.

*N.A. – Not Applicable.

*N.P. - Not Pertinent.

4. FIRST-AID MEASURES

Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes. Then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Ingestion: Immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give ANY liquid to the person. Do not give anything by mouth to an unconscious person.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE-FIGHTING MEASURES

Flash Point: > 360°F.

Test Method: Not available.

LEL Flammable Limits: Not available.

UEL Flammable Limits: Not available.

Autoignition Temperature: Not available.

Flammability Classification: Noncombustible.

Known Hazardous Products of Combustion: Not known.

Properties that Initiate/Contribute to Intensity of Fire: Not known.

Potential For Dust Explosion: None.

Reactions that Release Flammable Gases or Vapors: Not known.

Potential For Release of Flammable Vapors: Not known.

Unusual Fire & Explosion Hazards: The oil in this product is a Class III B combustible liquid with a flash point of 360°F.

Extinguishing Media: Foam, carbon dioxide, dry chemical, or water fog.

Special Firefighting Procedures: Wear positive pressure, self-contained breathing apparatus and full protective clothing. Avoid smoke inhalation. Contain any liquid runoff.

6. ACCIDENTAL RELEASE MEASURES

Containment: Prevent product spillage from entering drinking water supplies or streams.

Clean Up: Collect liquid or absorb onto absorbent material and package for disposal.

Evacuation: Not necessary.

7. HANDLING AND STORAGE

Storage: Store in original container only in a cool, well-ventilated, dry place at temperatures above 40°F. Do not store near food or feeds. Do not stack pallets more than two (2) high.

Transfer Equipment: Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.

Work/Hygienic Practices: Keep out of reach of children. Harmful if swallowed. Avoid breathing spray mists or vapors. Avoid contamination of feed or foodstuffs. Wear long-sleeved shirt and long pants, shoes plus socks and chemical resistant gloves. After using this product remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.

Skin: Long-sleeved shirt and long pants, shoes plus socks and chemical resistant gloves (such as barrier laminate, nitrile rubber, neoprene rubber or viton).

Respiratory: Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).

Ventilation: Recommended but no TLV established.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White emulsion.

Odor: Ammonia odor.

pH: 7.1 – 9.8. Typical average around 8.0.

Vapor Pressure: Not available.

Vapor Density (Air=1): Not available.

Boiling Point: Not available.

Freezing Point: Not available.

Water Solubility: Dispersible.

Density: 7.16 lbs./gal

Evaporation Rate: Not determined.

Viscosity: Not available.

% Volatile: Not available.

Octanol/Water Partition Coefficient: Not available.

Saturated Vapor Concentration: Not available.

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions To Avoid: Not available.

Incompatibility: Avoid strong oxidizers.

Hazardous Decomposition Products: Burning may result in formation of carbon monoxide.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Effects:

Eyes: May cause temporary eye irritation.

Skin: May cause slight irritation. Not a contact sensitizer. LC50 (Rabbit): >2,000 mg/kg.

Ingestion: May be harmful if swallowed. Aspiration hazard if swallowed and vomiting occurs.

LD50 (Rat): >5,000 mg/kg.

Inhalation: Excessive exposure may cause temporary irritation to nose, throat and eyes.

LD50 (Rats) >2.06 mg/L

Subchronic Effects: None known.

Chronic Effects: None known.

12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition: Not known.

Toxicity to Fish and Invertebrates: Not known.

Toxicity to Plants: Not known.

Toxicity in Birds: Not known.

13. DISPOSAL CONSIDERATIONS

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

14. TRANSPORT INFORMATION

D.O.T.: Not D.O.T. Regulated.

Other Shipping Description:

Insecticides or Fungicides, Liquid.

NMFC Item 102120, LTL Class 60

15. REGULATORY INFORMATION

EPA Reg. No. 48813-1-68539

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other information, including direction for use.

CAUTION

Harmful if swallowed.

Avoid contact with strong oxidizers.

May generate carbon monoxide if burned.

Product is toxic to fish.

CERCLA: None.

SARA TITLE III, Section 313 Toxic Chemicals: None.

PROPOSITION 65 (CA): None.

16. OTHER INFORMATION

CONTACT: BioWorks, Inc.
100 Rawson Rd, Suite 205
Victor, NY 14564

TELEPHONE: 800.877.9443

DISCLAIMER AND LIMITATION OF LIABILITY

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.