

Health & Safety Data Sheet

Material Safety Data Sheet (MSDS)

Identification / Product name

1. Product Name: FLAMECHECK M-111

CAS No : Not applicable to mixture.

Intended use: Flame retardant spray for natural and synthetic materials.

Manufacturer: Flamecheck International Ltd

150 S. Houghton Rd, Ste120,

Tucson, AZ 85748

Telephone: 1-520-204-1053

Emergency Tel: 1-520-225-0270

Composition / Information of Ingredients Chemical Description

Hazardous Ingredients

| Product Description | | | | |
|-----------------------|------|------------|-----------|--------|
| NAME | W/W% | CAS | CLASS | R.NOS |
| Ether Phosphate Ester | 1-5 | | Irritant | R36/38 |
| Nonionic Surfactant | <1 | 68439-45-2 | Harmful | R22 |
| Sulphuric Acid | <1 | 7664-93-9 | Corrosive | R35 |

2. Product not classified as hazardous according to EEC Regulations. pH is between 5.9-6.8 when liquid, avoid Skin & Eye Contact. When dry, product does not constitute any risk or hazard.

3.

Hazards Identification

3. General: In all cases of doubt or when symptoms persist seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in the recovery position and seek medical attention.

First Aid Measures

4. Eyes: Contact Lenses should be removed. Flush with copious volume of water for 15 minutes, holding eyelids apart. Seek medical attention.

Skin: Wash off with plenty of water. Seek medical attention if any symptoms persist.

Inhalation: Remove to fresh air. Keep calm and warm. If breathing has stopped give artificial respiration and seek medical attention.

Ingestion: Wash mouth out with water and give milk or water to drink (unless unconscious). Seek immediate medical attention.

Fire Fighting Measures

5. Extinguishing Media: Product is not combustible. Use media appropriate to material on fire.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. In a large fire, water may boil off leaving a residue, which, if exposed to high temperatures, may decompose with possible resultant production of Ammonia, Oxides of Nitrogen, Oxides of Phosphorous, Carbon Dioxide, and possibly Carbon Monoxide. Fumes of Sulphuric Acid may be evaporated off from the product. Keep containers cool by water spray.

Accidental release measures (spillage)

6. Spill Cleanup Procedures: Always wear personal protective equipment (see Section 8). For small spills either absorb with absorbent material and transfer to sealed container for approved disposal or flush away using large volumes of water. For large spills dam off spillage and pump/transfer to containers. Any residue should be treated as per small spillage. Observe all national/local regulations when disposing of any chemical product.

Storage and Handling (normal use)

7. Store in sealed containers in a cool dry place. Apply adequate factory hygiene principles when using this product. Wear appropriate personal protective equipment. Avoid eye and skin contact.

Storage Precautions: Store in original sealed containers in a cool dry area.

Storage Temperature: -5°C to +30°C

Shelf Life: Indefinite

Exposure Controls / Personal Protection

8. Comments: Working procedures should be designed to minimize worker exposure to product. Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Take measures to minimize inhalation when spraying.

Protective Gloves: Wear impervious gloves.

Eye protection: Wear Safety goggles / face visor

Other Protection: If splashes likely, wear protective boots and clothing. If to be sprayed, recommend use of adequate face mask with respiratory protection.

Stability and Reactivity

9. Stability: Stable under normal conditions may become cloudy at low temperatures. If product freezes thaw and then stir or mix liquid once the product has reached room temperature.

Materials to avoid: Strong acids and bases and oxidizing agents as product is mildly acidic will corrode some metals on prolonged contact.

Toxicology Information

10. Medical Symptoms: Contact with skin unlikely to have any effects. Washing off with water should suffice. Prolonged or repeated contact may produce some irritation and dermatitis. Eye contact may produce some minor irritation but damage unlikely if washed out immediately. If allowed to remain in eye however some irritation and/or burns may occur.

Inhalation of small amounts is unlikely to have any effects bar mild irritation of respiratory tract. However, if large

quantities are inhaled the product may cause respiratory irritation and act as a sedative. It may affect the central nervous system. Symptoms of acute poisoning include decreased motor activity, breathing difficulties, loss of muscular coordination, drowsiness, irritability, vertigo, confusion, hallucination and coma. Ingestion of very large quantities may result in internal irritation, vomiting and abdominal cramps in addition to effects similar to those which are caused by inhalation of large doses.

Ecological Information

11. Mobility: Product totally miscible with water.

Tests on the effect of product on sewage bacteria:

Test Ree:30:4/CJR/MD Dr. R.H.Reed Newcastle Polytechnic

Extremely low COD mg/ml of 45 = Non Toxic

Extremely low BOD mg/ml <10 = Non Toxic

The results show that M-111 is unlikely to represent any danger should this product enter a body of water in concentrations of 5ppm and 10ppm as tested. Full report available on demand.

Product is biodegradable.

Disposal Considerations

12. Disposal Methods: Via an approved Waste Disposal Contractor to an approved Waste Disposal Site. Observe all national/local regulations.

Transport Information (Regulations)

13. Road, Air or Sea: Product is not classified as hazardous for transportation purposes according to EEC Regulations.

Packaging 5 and 55 gallon poly containers

Regulatory Information (Supply and Labeling)

| | |
|------------------|---|
| Labeling | |
| Supply Class | None |
| Hazard Pictogram | None |
| Risk Phases | None |
| Safety Phases | <p>S2 - Keep out of the reach of children</p> <p>S24/25 - Avoid contact with eyes and skin</p> <p>S26 - In case of eye contact flush with water seek medical attention</p> <p>S37 - Use suitable Gloves and protective clothing</p> |

14. The information contained in this safety data sheet does not constitute the user's own assessment of the workplace risks as required by other health and safety legislation.

15. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of the company's knowledge and belief accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. It is the responsibility of the user to satisfy themselves as to the suitability of such information for their own particular use.

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For more information call us on (520) 204-1053 or Fax to (520)-225-0270