

## Safety Data Sheet

### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

**Product Name:**

Mosfog

**Use:** Industrial

**Company Name:**

Coopers Environmental Science (Pty) Ltd.

Reg. No. 2000/023667/07

P.O. Box 14374

BREDELL 1623

SOUTH AFRICA

TEL: (011) 979-4246/7

**Emergency Contact Number:**

Griffon Poison Information Centre – (+27) 82 446 8946

### 2. HAZARD IDENTIFICATION

**Important hazards:**

GHS classification of the mixture	
Hazard classes / categories	Hazard codes
Aquatic Chronic 2	H411

**GHS classification:** Uncategorised

**Hazard pictogram:**



**Signal word:** No signal word identified

**Hazard statements:**

H411: Toxic to aquatic life with long lasting effects.

**Other hazards:**

No additional hazards identified.

**Precautionary statements:**

P273: Avoid release into the environment.

P391: Collect spillage.

P501: Dispose of content/container to suitable landfill in accordance with local regulations.

### 3. COMPOSITION INFORMATION ON INGREDIENTS:

CAS NO	HAZARDOUS COMPONENT	CONCENTRATION	GHS CLASSIFICATION
8003-34-7	Pyrethrum	0.5%	H302: Acute Toxicity 4 H312: Acute Toxicity 4 H332: Acute Toxicity 4 H400: Aquatic Acute 1 H410: Aquatic Chronic 1
51-03-6	Piperonyl butoxide	4 %	H400: Aquatic Acute 1 H410: Aquatic Chronic 1

### 4. FIRST AID MEASURES:

**Inhalation:** Remove patient from source of poisoning to well-ventilated area and keep him quiet and reassured. If necessary, administer artificial respiration and oxygen or closed chest cardiac massage.

**Skin contact:** Remove contaminated clothing, rinse the affected skin area with plenty of soap and cool water or shower. DO NOT rub skin hard.

**Eye contact:** Immediately wash eyes with copious amounts of clean water for at least 15 minutes, cover with a sterile pad, contact a doctor.

**Ingestion:** Keep patient calm and reassured, rinse mouth with clean water. Never give anything by mouth to an unconscious person. DO NOT apply direct mouth to mouth respiration, use a disposable protective mouthpiece.

**Note to physician:** Treat symptomatically. No specific antidote known. The product contains a synergist which may make a person temporarily vulnerable to a variety of toxic insults which would normally be tolerated with ease.

### SEEK MEDICAL ADVICE PROMPTLY AND SHOW THIS SDS TO A MEDICAL PRACTITIONER

### 5. FIRE FIGHTING MEASURES:

Personnel involved in a fire situation with this material should wear self-contained breathing apparatus as acrid smoke and irritating fumes may be given off. No unprotected person should be allowed in the vicinity.

Decomposes in a fire to emit acrid smoke and irritating fumes.

**Fire extinguishing agents to be used:** Foam.  
Contain run-off with temporary earth barriers.

### **Advice for firefighters**

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

## **6. ACCIDENTAL RELEASE MEASURES:**

### **Personal precautions, protective equipment and emergency procedures**

**General measures:** Use personal protective equipment as required.

### **For non-emergency personnel**

**Emergency procedures:** Evacuate unnecessary personnel.

### **For emergency responders**

**Protective equipment:** Equip cleanup crew with proper protection.

**Emergency procedures:** Ventilate area.

### **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

### **Methods and material for containment and cleaning up**

**Methods for cleaning up:** Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### **Reference to other sections**

See Heading 8. Exposure controls and personal protection.

## **7. HANDLING AND STORAGE:**

### **Storage:**

Store away from children and pets. Store in a cool, dry place away from sources of heat. Store away from farm feeds, foodstuffs and eating utensils. Store away from alkaline materials.

### **Cleaning of equipment after use:**

Clean protective clothing. Used protective clothing and the workers' personal clothing shall be kept apart. At the end of each day, all protective clothing and respirators shall be decontaminated, washed, rinsed and dried. Extra care must be taken when cleaning equipment after use.

**Handling precautions:**

Wash with soap and water after use. Avoid excessive wetting of plastic, rubber or asphalt surfaces. During application and when cleaning equipment contamination of all sources of drinking water, rivers, dams, crops or grazing shall be prevented. The material is toxic to fish and bees.

**8. EXPOSURE CONTROL AND PERSONAL PROTECTION:**

**Pyrethrins (8003-34-7)**

EU Local name Pyrethrum  
EU IOELV TWA (mg/m<sup>3</sup>) 1 mg/m<sup>3</sup>

Chemical resistant gloves, safety goggles or face shield, adequate ventilation or effective respiratory protection, full length protective clothing and boots should be worn when handling this material in an emergency.

**Exposure controls**

**Personal protective equipment:**

Avoid all unnecessary exposure.

**Hand protection:**

Wear protective gloves

**Eye protection:**

Chemical goggles or safety glasses

**Respiratory protection:**

Wear appropriate mask

**Other information:**

Do not eat, drink or smoke during use.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

<b>Description:</b>	A clear liquid
<b>Colour:</b>	Honey / light viscose yellow
<b>Odour:</b>	Paraffinic
<b>Solubility:</b>	Not soluble in water
<b>Flash point:</b>	About 142 °C
<b>Degradation:</b>	In the environment, degradation promoted by sunlight and UV light. In mammals, rapidly degraded in the stomach by hydrolysis of the ester bond to harmless metabolites.
<b>pH:</b>	No data available
<b>Melting point:</b>	No data available
<b>Freezing point:</b>	No data available
<b>Boiling point:</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Vapour pressure:</b>	No data available

## 10. STABILITY AND REACTIVITY:

### Reactivity

The product is stable at normal handling and storage conditions.

### Chemical stability

Not established. The product is stable at normal handling and storage conditions.

### Possibility of hazardous reactions

None expected under normal conditions of handling and use.

### Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### Incompatible materials

Oxidizing agent.

## 11. TOXICOLOGICAL INFORMATION:

### Toxicological information on formulated product (calculated):

According to the information at hand, this product is not calculated as toxic or harmful through oral, dermal or inhalation routes.

## 12. ECOLOGICAL INFORMATION:

### Ecotoxicity

#### Toxicity to fish:

Rainbow trout/LC50 (96 h): 0.009 mg/l

Bluegill LC50 (96 h): 10 µg/l

#### Aquatic invertebrates:

Daphnia magna/LC50 (48 h): 12 µg/l

#### Toxicity to birds:

Mallard duck LD50: >10000 mg/kg

#### Persistence and degradability:

Rapidly oxidizes in presence of sunlight DT50 10-12 days

#### Additional information

#### Other ecotoxicological advice:

Do not discharge product into the environment.

## 13. DISPOSAL CONSIDERATIONS:

**Regional legislation (waste):** Disposal must be done according to official regulations.

**Waste treatment methods:** Empty containers to be disposed of as toxic waste in accordance with local/national regulations. DO NOT re-use for any other purpose.

**Product/Packaging disposal recommendations:**

Dispose of contents/container in a safe manner in accordance with local/national regulations.

**Ecology - waste materials:** Avoid release to the environment

**14. TRANSPORT INFORMATION:**

**UN No:** 3082  
**Class:** 9  
**Packing group:** III  
**Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S  
(Pyrethrum 5 g/l, Piperonyl butoxide 40 g/l)

**15. REGULATORY INFORMATION:**

**15.1 Regulations of the European union (Labelling) / National legislation/Regulations**

**WHO classification:** III

**R-phrase(s):** R 20, 21, 22, 50, 51  
**S-phrase(s):** S 2, 23, 24

**15.2 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

**15.3 Chemical Safety Assessment**

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

**16. OTHER INFORMATION:**

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.