

**MATERIAL SAFETY DATA SHEET**

**Company Details**

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**1.Product and Company Identification:**

<u>Trade / Commercial Name</u>	<b>COOPERS REDLINE POUR ON</b>		
<u>Chemical Name</u>	pesticides, liquid, toxic, flammable, NOS, fp 23oC to 61oC (miscible with water)		
<u>Formula</u>	Flumethrin 1%		
<u>Chemical Family</u>	Pyrethroids		
<u>Synonyms</u>			
<u>Un No</u>	2903	<u>Hazchem Code</u>	2we
<u>ERG No.</u>	131	<u>EAC</u>	28

**2.Hazards Identification:**

Product has an oil base - is a toxic liquid that is flammable.

1. Poisonous; Could be fatal if inhaled, swallowed or absorbed through skin.
2. Contact could cause burns to skin and eyes and mouth
3. Runoff from fire-control or dilution water could cause pollution.
4. Product must not enter water systems or sewers - toxic to water life and fish.
5. Protective clothing to be worn at all times when using product.

**3.Composition:**

Hazardous Components Flumethrin 1% Aromatic hydrocarbons approx 77%

**4.First Aid Measures**

<u>First Aid Skin</u>	Immediately remove contaminated clothing, including shoes. Wash affected area with plenty of water for at least 20 minutes. <b>SPEED IN REMOVING LIQUID FROM SKIN IS OF PRIME IMPORTANCE</b>
<u>First Aid Eyes</u>	Flush eyes with water for 15 minutes. Hold eyelids open while washing.
<u>First Aid Ingested</u>	Precautions: Avoid contact with the product. Avoid breathing in of product or mist. Do not eat, drink or smoke during application. Wash hands thoroughly after use.  Symptoms of poisoning: Hyperexciteability, tremors or convulsions, with muscle weakness.  First Aid: Remove person from source of contamination and remove all contaminated clothing (taking care not to contaminate the first aider). Wash thoroughly with copious amounts of soap and water.  Treatment: There is no specific treatment, thus treatment is symptomatic and supportive.
<u>First Aid Inhalation</u>	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.

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Have victim lie down and keep warm.

**5. Fire Fighting Measures**

1. SMALL FIRES: Dry chemical, CO<sub>2</sub>, water spray or standard foam DO NOT USE BCF/HALON Fire Extinguishers

2. LARGE FIRES: Water spray, fog or standard foam is recommended.

remove container from fire area if you can do it without risk.

Dike fire control water for later disposal; do not scatter the material.

Cool containers that are exposed to flames with water from the

side until well after the fire is out. Stay away from ends of tanks.

Withdraw immediately in case of rising sound from venting safety

device or any discolouration of tank due to fire.

Keep unnecessary people away; isolate hazard area and deny entry.

Stay upwind; keep out of low areas.

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 firefighter's protective clothing is NOT effective

with these materials.

IF TANK, RAIL CAR OR TANK TRUCK IS INVOLVED IN FIRE, ISOLATE FOR 1 KILOMETRE

IN ALL DIRECTIONS AVOID SPRAYING ON CONTAINERS - can cause material to boil over

**6. Accidental Release Measures**

**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:**

Shut off ignition sources; no flares, smoking or flames in hazard area.

Do not touch spilled material.

Stop leak if you can do it without risk.

Water spray may reduce vapor; but it may not prevent ignition in closed spaces.

Remove spilled material by absorbing onto absorbant material (eg. swadust).

Pack into sealable container.

**SMALL SPILLS:**

Takeup with sand or other noncombustible absorbent material

and place into containers for later disposal.

**LARGE SPILLS:**

Dike far ahead of liquid spill for later disposal.

**7. Handling And Storage**

Separation of at least 3M from the following classes is recommended.

Corrosives

Fire separation of at least 5M or 4Hr fire resistant wall

from the following classes is recommended.

Flammable Gases

Flammable Liquids

Flammable Solids

Spontaneously Combustibles

Dangerous When Wet

Oxidizing Agents

Storage in the same room or space is prohibited with the following classes:

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The rooms or spaces should be at least 10M apart.  
 Explosives Organic Peroxides  
 Store away from food, feed children and uninformed persons

**8.Exposure Controls/Personal Protection**

Occupational Exposure Limits	T	W	A	OEL-RL	SHORT TERM	OEL-RL	
				PPMa )	MG/M3b )	PPMa )	MG/M3b )
				-	5	-	10

**Controls**  
 The control measures appropriate for a particular worksite 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**  
 If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment, including chemical safety goggles & face shield, boots, imperious gloves, coveralls, & respiratory protection.(NIOSH approved respirator) Have appropriate equipment available for use in emergencies.

**9.Physical & Chemical Properties**

Clear to dark yellow liquid with hydrocarbon odor  
 Oil based will float on water - minimally emulsifiable in water.  
 Boiling Point : 220 - 555 degrees C  
 Density at 25 degrees C: 0.83 - 1.013  
 Flash point 66 oC

**10.Stability And Reactivity**

**Conditions to Avoid** Stable under normal conditions.  
 Incompatibility : Oxidizing Agents  
**Incompatible Materials** Oxidizing Agents  
**Other** Hazardous Decomposition Products : Carbon Monoxide

**11.Toxicological Information**

LD50 oral rat (male) 258 mg/kg  
 LD50 oral rat (female) 192 mg/kg  
 LD50 dermal rat > 150 mg/kg  
 Rabbit skin irritation: non-irritant  
 Rabbit mucose membrane irritation : Non irritant

**12.Ecological Information**

Active ingredient Daphnia toxicity  
 Daphnia magna Strauss: 0.2 mg/l.

**13.Disposal Considerations**

**Disposal Method Product** There are no uniform EC regulations for the disposal of chemicals or residues.

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Chemical residues generally count as special waste.

The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations.

We recommend that you contact the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste. Pack small quantities into sealed containers, using appropriate personal protection, and dispose in accordance with local requirements.

Disposal Method Packaging Disposal in accordance with local legal provisions.

**14. Transport Information**

<u>UN No</u>	2903	<u>Hazchem Code</u>	2we
<u>ERG No.</u>	131	<u>EAC</u>	28
<u>ADR/RID Class</u>	6.1	<u>ADR/RID Hazard ID No</u>	87B
<u>IMDG-Shipping Name</u>	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S.		
<u>IMDG Code</u>	6146.1	<u>IMDG-Packaging Group</u>	III
<u>Marine Pollutant</u>	Yes		
<u>Class</u>	Class: 6.1 Poison Group: III		
<u>Subsidiary Risks</u>	Flammable liquid 6.1 2902 II		

**15. Regulatory Information**

<u>EEC Hazard Classification</u>	6.1
<u>Risk Phrases</u>	R11 Highly flammable. R23 Toxic by inhalation. R24 Toxic in contact with skin. R25 Toxic if swallowed. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R67 Vapours may cause drowsiness and dizziness. R68 Possible risk of irreversible effects.
<u>Safety Phrases</u>	S7 Keep container tightly closed. S16 Keep away from sources of ignition - No smoking. S23 Do not inhale gas/fumes/vapour/spray. S24 Avoid contact with skin. S36/37 Wear suitable protective clothing and gloves. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.)

National Legislation

**16. Other Information**

Reason for Alteration: General update.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properness of the product.

**Disclaimer:**

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The company provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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