



Material Safety Datasheet

CAS No 64-17-5
Date Issued: 2011/08/26
ECOMECTIN 1% INJECTION

Company Details

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1. Product and Company Identification

<u>Trade / Commercial Name</u>	ECOMECTIN 1% INJECTION		
<u>Chemical Name</u>	ethyl alcohol, hfp , Ivermectin 1% , Propylene Glycol 72%		
<u>Formula</u>	C2H5OH		
<u>Chemical Family</u>	603 Alcohol's		
<u>Synonyms</u>	ethanol, grain alcohol, fermentation alcohol, alcohol, methylcarbinol, absolute alcohol		
<u>Un No</u>	1170	<u>Hazchem Code</u>	2[S]
<u>ERG No</u>	127	<u>EAC</u>	26

2. Hazards Identification

Flammable Liquid.
Will be easily ignited by heat, sparks or flames.
Fire may produce irritating, corrosive and/or toxic gases.
May have irritant effect: on eyes, on skin, on air passages.
Runoff from fire control may cause pollution.

3. Composition

<u>Hazardous Components</u>	ethyl alcohol, hfp
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4. First Aid Measures

<u>First Aid Skin</u>	Remove & isolate contaminated clothing, including shoes. Flush body with plenty of water for at least 20 minutes. Wash skin with soap and water. 00Keep victim warm and quiet.
<u>First Aid Eyes</u>	Flush eyes with water for 15 minutes. Hold eyelids open while washing.
<u>First Aid Ingested</u>	Do not induce vomiting. Seek medical assistance.
<u>First Aid Inhalation</u>	Move victim to fresh air. If not breathing give artificial respiration. If breathing of victim is difficult administer oxygen for a maximum period of one hour.

5. Fire Fighting Measures

CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.
Small Fires: Dry chemical, CO2, water spray or alcohol-resistant foam.
Large Fires: Water spray, fog or alcohol-resistant foam. Do not use straight streams.

Move containers from fire area if you can do it without risk.
 Fire involving Tanks or Bulk Containers: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
 Cool containers with flooding quantities of water until well after fire is out.
 Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
 ALWAYS stay away from the ends of tanks. For massive fire, use unmanned hose holders or monitor nozzles;
 if this is impossible, withdraw from area and let fire burn.
 Isolate spill or leak area immediately for at least 25 to 50 metres (80 to 160 feet) in all directions.
 Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.
 Wear positive pressure self-contained breathing apparatus (SCBA).
 Structural firefighters' protective clothing will only provide limited protection.
 Large spill consider initial downwind evacuation for at least 300 metres (1000 feet).
 If ROAD OR RAIL TANKER is involved in a fire, ISOLATE for 800 metres (1/2 mile) in all directions;
 also, consider initial evacuation for 800 metres (1/2 mile) in all directions.

6. Accidental Release Measures

Breathing apparatus for fire only
 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:
 ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
 All equipment used when handling the product must be grounded.
 Do not touch or walk through spilled material.
 Stop leak if you can do it without risk.
 Prevent entry into waterways, sewers, basements or confined areas.
 A vapour suppressing foam may be used to reduce Vapours.
 Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
 Use clean non-sparking tools to collect absorbed material.
 Large Spills
 Dike far ahead of liquid spill for later disposal.
 Water spray may reduce vapour; but may not prevent ignition in closed spaces.

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 Solids
 Spontaneously Combustibles Dangerous When Wet
 Poison
 Storage in the same room or space is prohibited with the following classes:
 The rooms or spaces should be at least 10M apart.
 Explosives Poisonous Gases
 Oxidizing Agents Organic Peroxides
 Radioactive

8. Exposure Controls/Personal Protection

Occupational Exposure Limits T W A OEL-RL SHORT TERM OEL-RL

 PPMa) MG/M3b) PPMa) MG/M3b)

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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. Have appropriate equipment available for use in emergencies.

9. Physical & Chemical Properties

A colourless volatile liquid with wine odour.
Boiling Point: 78 oC
Relative Density: vapour: 1,59 (air:1)
liquid: 0,79 (water:1)
Vapour Pressure: 5,6 kpa
Flash Point: 12 oC
Flammable Limits: 3,3 to 19%
Autoignition Temperature: 423 oC
Completely soluble in water.
Forms explosive mixtures with oxidising agents.

10. Stability And Reactivity

Conditions to Avoid

Stable.
Risk of violent reaction. Forms explosive mixtures with air. Hygroscopic.

Incompatible Materials

strong oxidizing agents, peroxides, acids, acid chlorides, acid anhydrides, alkali metals, ammonia, moisture.

Other

None.

11. Toxicological Information

Causes skin and eye irritation. Ingestion can cause nausea, vomiting and inebriation; chronic use can cause serious liver damage. Note that "absolute" alcohol, which is close to 100% ethanol, may nevertheless contain traces of 2-propanol, together with methanol or benzene. The latter two are very toxic, while "denatured" alcohol has substances added to it which make it unpleasant and possibly hazardous to consume. Typical OEL 1000 mg/m³.

Toxicity data

ORL-CHD LDLO 2000 mg kg-1
ORL-MUS LD50 3450 mg kg-1
ORL-RAT LD50 7060 mg kg-1
ORL-RAT LD50 7060 mg kg-1
IHL-RAT LC50 20000 ppm/10h

12. Ecological Information

No data available.

13. Disposal Considerations

<u>Disposal Method Product</u>	There are no uniform EC regulations for the disposal of chemicals or residues. 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.
<u>Disposal Method Packaging</u>	Disposal in accordance with local legal provisions.

14. Transport Information

<u>UN No</u>	1170	<u>Hazchem Code</u>	2[S]
<u>ERG No</u>	127	<u>EAC</u>	26
<u>IMDG-Shipping Name</u>	ETHANOL SOLUTION		
<u>IMDG Code</u>	3074	<u>IMDG-Packaging Group</u>	II/III
<u>Marine Pollutant</u>	Yes		
<u>Class</u>	Class: 3 Flammable Liquid Group: II/III		
<u>Subsidiary Risks</u>	None		

15. Regulatory Information

<u>EEC Hazard Classification</u>	3
<u>Risk Phases</u>	R11 Highly flammable. R20 Harmful by inhalation. R22 Harmful if swallowed. R36 Irritating to eyes. R37 Irritating to respiratory system. R38 Irritating to skin.
<u>Safety Phases</u>	S3 Keep in a cool place. S7 Keep container tightly closed. S9 Keep container in a well-ventilated place. S16: Keep away from sources of ignition - no smoking.
<u>National Legislation</u>	

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.

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