



Crest Chemicals

MATERIAL SAFETY DATASHEET

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CAS No 50-00-0

Date Issued
FORMALIN

21/Jun/2006

Company Details

Name CREST CHEMICALS
Address 247 15TH ROAD RANDJES PARK
MIDRAND
1685
SOUTH AFRICA

Emergency Phone Number 011-608-3300
Tel 011-254-3300
Fax 011-314-4886

1. Product and Company Identification:

<u>Trade / commercial Name</u>	FORMALIN		
<u>Chemical Name</u>	formalin conc> 30% (flash point above 55o C)		
<u>Formula</u>	CH ₂ O		
<u>Chemical Family</u>	Formaldehydde		
<u>Synonyms</u>	Methanal, methyl aldehyde, methylene oxide, oxomethane		
<u>Un No</u>	2209	<u>Hazchem Code</u>	2t
<u>ERG No.</u>	132	<u>EAC</u>	29

2. Composition:

Hazardous Components Formalin

3. Hazards Identification

Corrosive

If inhaled, could be harmful; contact could cause burns to skin and eyes.

Fire could produce irritating or poisonous gases.

Runoff from fire-control or dilution water could cause pollution.

Mucous membrane, skin and eye irritant.

Inhalation: Severe irritation of nose and throat, coughing, difficulty with breathing.

Eye Contact: Severe irritation, watering and burning.

Skin Contact: Irritation, reddening and burning.

Ingestion: Sore throat, stomach pains, diarrhoea.

4. First Aid Measures

<u>First Aid Skin</u>	Wash off with water.
<u>First Aid Eyes</u>	Flush eyes with water for 15 minutes. Hold eyelids open while washing.
<u>First Aid Ingested</u>	Induce vomiting. Give oxygen. Give milk if available, follow with water.
<u>First Aid Inhalation</u>	Remove from contaminated area. Give oxygen. CPR if indicated.

5. Fire Fighting Measures

Some of these materials may react violently with water.

SMALL FIRES: Dry chemical, CO₂, Halon, water spray or standard foam.

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

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

Do not get water inside of container.

All information is given in good faith but without guarantee in respect of accuracy & no responsibility is accepted for errors or omissions or the consequences thereof.



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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. Self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide limited protection. IF TANK, RAIL CAR OR TANK TRUCK IS INVOLVED IN FIRE, ISOLATE FOR 1 KILOMETRE IN ALL DIRECTIONS.

6. Accidental Release Measures

Breathing apparatus and protective gloves
Dilute (substance may be washed to drain with a lot of water)

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.
Use water spray to reduce vapours.
DO NOT get water inside of 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

Keep cool - ventilate at floor level.

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

Flammable Liquids Flammable Solids

Spontaneously Combustibles Poison

Fire separation of at least 5M or 4Hr fire resistant wall from the following classes is recommended.

Flammable Gases Dangerous When Wet

Oxidizing Agents Organic Peroxides

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

Oxidants

The rooms or spaces should be at least 10M apart.

Explosives Radioactive

8. Exposure Controls/Personal Protection

Occupational Exposure Limits

T W A OEL-RL

SHORT TERM OEL-RL

PPMa) MG/M3b)

PPMa) MG/M3b)

2, A2 2.5, A2

2, A2 2.5, A2

**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

Clear colourless liquid with irritating odour, containing 30-55% by mass of dissolved formaldehyde gas.

Boiling Point: about 100 °C (varies with concentration)

Freezing Point: varies.

Relative Density: vapour: 1,03 (air:1)

liquid: 1,0 to 1,2 (water:1) (varies)

Flash Point: 50 to 85 °C.

Completely soluble in water.

10. Stability And Reactivity**Conditions to Avoid**

Heat

Incompatible Materials

Oxidants and organic substances

Other

Hydrochloric acid

Nitric acid

11. Toxicological Information

Decomposes when heated giving off formic acid

Reacts with hydrochloric acid giving off bis (chloromethyl) ether

12. Ecological Information

No ecological problems are expected when the product is handled and used with due care.

13. Disposal Considerations**Disposal Method Product**

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.

Disposal Method Packaging

Disposal in accordance with local legal provisions.

14. Transport Information

UN No

2209

Hazchem Code

2t

ERG No.

132

EAC

29

IMDG-Shipping Name

FORMALDEHYDE SOLUTION

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<u>IMDG Code</u>	9021	<u>IMDG-Packaging Group</u>	III
<u>Marine pollutant</u>	Yes		
<u>Class</u>	Class: 8	Corrosive	Group: III
<u>Subsidiary risks</u>	None		
<u>Tremcard Number</u>	80-2/80G20C		

15. Regulatory Information

<u>EEC Hazard Classification</u>	8
<u>Risk Phases</u>	Toxic by inhalation, in contact with skin and if swallowed
<u>Safety Phases</u>	Keep out of reach of children After contact with skin, was immediately with plenty of water
<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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