



Safety Data Sheet

According to NOHSC:2011(2003)

Version: 1.0
Revised: 13 Sept 2006

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MSDS No: 161

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

1. Identification of the substance/preparation and company

Product:

Formol[®]

Recommended use:

Chemical mould release agent for concrete formwork.

Manufacturer/supplier information:

Manufacturer/supplier:	Sika Australia Pty Ltd
Street/postbox:	55 Elizabeth Street
Town/city and Post Code:	WETHERILL PARK NSW 2164
Country:	AUSTRALIA
Phone:	(02) 9725 1145
Fax:	(02) 9725 3330
General information	Operations Manager

Emergency information phone: 1800 033 111

2. Composition/information on ingredients

Chemical characterization:
Hydrocarbon solution

Hazardous ingredients:

Ingredient	CAS No	Concentration
High flash point hydrocarbon	68334-30-5	>60%

3. Hazard identification

Hazard Category:
Xn Harmful

Risk Phrase(s):

R40: Possible risk of irreversible effects.
R65 Harmful: may cause lung damage if swallowed.

Safety Phrase(s):

S24: Avoid contact with skin.
S36/37: Wear suitable protective clothing and gloves.
S62: If swallowed, do not induce vomiting; seek medical advice immediately and show the container or label.

4. First-aid measures

Inhalation:

Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. Keep at rest until fully recovered. Seek medical advice if symptoms develop.

Skin contact:

Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If swelling, redness, blistering or irritation occurs seek medical assistance. If high pressure injection injury occurs seek medical attention immediately.

Eye contact:

If in eyes, wash out immediately with water. If symptoms persist seek medical attention.



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Ingestion:

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766). Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs have victim place head below hip level in order to reduce the risk of aspiration. Seek medical advice.

Notes to physician:

Treat symptomatically.

5. Fire-fighting measures

Specific hazards:

Combustible. Keep storage tanks, pipelines, fire exposed surfaces cool with water spray. Shut off any leak if safe to do so and remove sources of ignition. May form explosive mixtures with air. Take steps to prevent electrostatic discharge. Containers may explode if exposed to heat. Vapours are heavier than air and may travel to low-level areas, e.g. sumps, drains etc and flashback.

Special protective precautions and equipment:

Combustible material. Fire fighters to wear self-contained breathing apparatus operate in positive pressure mode. Use water spray to cool fire exposed containers.

Suitable extinguishing media:

Use foam, dry agent (carbon dioxide, dry chemical powder) to extinguish fire.

6. Accidental release measures

Spills:

Remove all sources of ignition, ensure adequate ventilation.

Small Spills:

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent material (clean rag or paper towels). Allow cloth or tissue to dry in well ventilated area away from ignition sources before disposal. Remove any spill residues with a small amount of mineral turpentine. Collect and seal in properly labelled containers or drums for disposal.

Large spills:

Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. The area should be cleaned with detergent and water. Do not allow product to enter drains, sewers or waterways – inform the local authorities if this occurs. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Contaminated containers must not be treated as household waste. Empty containers may contain hazardous residues. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

7. Handling and storage

Handling:

Avoid skin and eye contact and inhalation of vapours.

Storage:

Classified as a class C1 combustible liquid for storage and handling purposes. Store in a well ventilated place away from sources of ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for spills.

8. Exposure controls/personal protection

National occupational exposure limits:



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No value assigned for this specific material by the NOHSC Australia.

However for:

	TWA	STEL
	ppm mg/m ³	ppm mg/m ³
Oil mist, refined mineral	- 5	- -

As published by the NOHSC Australia.

Biological Limit Values:

As per the "National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC: 1005 (1994)]" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures:

Special ventilation is not normally required due to the low volatility of the product at normal temperatures. However, in the operation of certain equipment or at elevated temperatures, mists or vapour may be generated and exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standard or where no exposure standard is allocated, as low as is reasonably practicable.

Personal protection equipment:

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

Wear overalls, chemical goggles and impervious gloves. Due to variations in glove construction and local conditions, the user should make an assessment of the appropriate gloves to use. Wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. If risk of inhalation of exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. Physical and chemical properties

Appearance:

Physical state: liquid
Colour: red
Odour: almost odourless

Data relevant to safety:

Solubility: Immiscible
Specific Gravity (20 °C): 0.8-0.9
Relative Vapour Density (air=1): >5
Vapour Pressure (25 °C): 0.54 mm Hg
Flash Point (°C): >61.5 °C
Flammability Limits (%): LEL – 1%v/v UEL – 6.0 %v/v
Autoignition Temperature (°C): > 250 C
Melting Point/Range (°C): N Av
Boiling Point/Range (°C): approx 150 – 390 C
pH: N App

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

10. Stability and reactivity

Chemical stability:

This material is thermally stable when stored and used as directed.

Conditions to avoid:

Elevated temperatures.

Incompatible Materials:

No information available.



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Hazardous decomposition products:

Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

Hazardous reactions:

Stable. Avoid oxidising agents and naked flames.

11. Toxicological information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects:

Inhalation: Inhalation of vapours or mists generated at elevated temperatures may irritate the respiratory system. Inhalation of high vapour concentrations may result in central nervous system depression. Inhalation of high levels of mist may result in chemical pneumonitis.

Skin contact: Contact with skin will result in moderate irritation.

Eye contact: A slight to moderate eye irritant.

Ingestion: Harmful: may cause lung damage if swallowed. Ingestion may cause nausea and vomiting. If vomiting occurs product may be aspirated into the lungs leading to chemical pneumonitis.

Long Term Effects:

Prolonged or repeated skin contact may cause defatting leading to dermatitis.

This product has been classed as a Carcinogen Category 3 Substance- R40 Possible risk of irreversible effects. That is, substances which cause concern for humans owing to possible carcinogenic effects but in respect of which the available information is not adequate for making a satisfactory assessment.

A substance is included in Category 3 if there is some evidence from appropriate animal studies that human exposure can result in the development of cancer, but this evidence is insufficient to place the substance in Category 2.

Acute toxicity / Chronic toxicity:

LD50 (Oral, rat) = 7500 mg/kg.

12. Ecological information

Avoid contaminating waterways.

Ecotoxicity:

No information available.

Persistence and degradability:

No information available.

Mobility:

No information available.

13. Disposal considerations

Refer to State/Territory Land Waste Management Authority.

14. Transport information

ADG/ADR/RID

Not classified as Dangerous Goods by the criteria of the ADG Code.



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IMDG

Not classified as Dangerous Goods by the criteria of the IMDG Code for transport by sea.

IATA

Not classified as Dangerous Goods by the criteria of the IATA Dangerous Goods Regulations for transport by air.

15. Regulatory information

Poisons Schedule (Aust):
Not applicable.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. Other information

Reason(s) For Issue: Revised

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy. MSDS may be obtained from the following website: www.sika.com.au

The information contained in this Safety Date Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the Technical Data Sheet prior to any use and processing.