



MATERIAL SAFETY DATA SHEET

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MC470-9

Revision 2
Revision date 15-Aug-2008

1. PRODUCT AND COMPANY IDENTIFICATION

Product name MC470-9
Description Thermal Sensitive Coating.
Company LCR Hallcrest
1820 Pickwick Lane
Glenview
IL 60026
sales@hallcrest.com
Telephone +1 847 998 8580
Fax +1 847 998 6866
Emergency telephone number +1 847 998 8580
Intended use Temperature measurement and thermal mapping.

2 HAZARDS IDENTIFICATION.

Statement of Hazard

FLAMMABLE LIQUID AND VAPOR

Properties

Color Red
State Liquid

Main hazards

Flammable Harmful by inhalation and in contact with skin. Danger of cumulative effects. Irritating to skin. Limited evidence of a carcinogenic effect. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. May cause harm to the unborn child. Possible risk of impaired fertility.

3 . COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients

	Conc.	CAS
Xylene (Xylene (o, m & p isomers))	20-30%	1330-20-7
C.I. Pigment Red 104	10-20%	12656-85-8
2-methoxy-1-methylethyl acetate	10-20%	108-65-6

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4. FIRST AID MEASURES

Skin contact	May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Treat as for inhalation if any signs of poisoning are present. Seek medical attention if irritation or symptoms persist.
Eye contact	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Inhalation of vapor may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.
Ingestion	Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. DO NOT INDUCE VOMITING. Seek medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing media	Alcohol resistant foam. Carbon oxides.
Fire hazards	Burning produces irritating, toxic and obnoxious fumes.
Protective equipment	Wear: Self-contained breathing apparatus. Wear chemical protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Eliminate all sources of ignition. Wear suitable protective equipment.
Environmental precautions	Do not allow product to enter drains. Prevent further spillage if safe.
Clean up methods	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

7. HANDLING AND STORAGE

Handling	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Keep away from sources of ignition - No smoking. Use explosion proof equipment.
Storage	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Xylene
(Xylene (o, m & p isomers))

ACGIH TLV TWA: 100 ppm
Notations: A4; BEI
OSHA PEL 8hr TWA mg m3: 435

ACGIH TLV STEL: 150 ppm
OSHA PEL 8hr TWA ppm: 100
Skin Designation: -

Engineering measures	Ensure adequate ventilation of the working area.
Respiratory protection	Self-contained breathing apparatus. Wear protective clothing.
Hand protection	Chemical resistant gloves (PVC)
Eye protection	Approved safety goggles.
Protective equipment	Wear chemical protective clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid.
Color	Red.
Boiling point	140°C
Flash point	30°C
Flammability limits	Flammable liquid and vapour.
Explosive	Lower Explosive Limit 1% Upper 7%
Oxidizing	N/A
Relative density	1.3
Water solubility	slightly soluble in water.
Viscosity	Flow Time in 3mm ISO cup (ISO 2431) - 30
Evaporation rate	> Ethyl acetate

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Heat, sparks and open flames.
Materials to avoid	Oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Toxicological information

Xylene

Oral Mouse LD50 = 2119 mg/kg

Oral Rat LD50 = 4300 mg/kg

Dermal Rabbit LD50 = >1700 mg/kg

Inhalation Rat LC50/4H h = 5000 ppm

Acute toxicity Toxic by inhalation, in contact with skin and if swallowed.

12. ECOLOGICAL INFORMATION

Further information May cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

General information Dispose of in compliance with all local and national regulations.

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14. TRANSPORT INFORMATION

DOT

UN 1992
Class 3Packing group III
Proper Shipping FLAMMABLE LIQUID, TOXIC,
Name N.O.S, (Methoxy Propyl Acetate,
C.I. Pigment Red 104).

IMDG

UN 1992
Class 3
EmS Code F-E S-DPacking group III
Marine pollutant .

IATA

UN 1992
Class 3
Packing Instruction 310
(Cargo)
Packing Instruction 309
(Passenger)Packing group III
Subsidiary risk 6.1
Maximum quantity 220 L

Maximum quantity 60 L

15. REGULATORY INFORMATION

Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Xylene	Y	Y	Y 1.0	N	N	Y	Y	N	N
C.I. Pigment Red 104	Y	N	N	N	N	N	N	N	N
PMA	Y	N	N	N	N	N	N	N	N

16. OTHER INFORMATION

Statement of Hazard

FLAMMABLE LIQUID AND VAPOR

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

Revision

This document differs from the previous version in the following areas:
16 - hMIS LABELLING.

TSCA

All components are TSCA compliant.

HMIS LABELLING

HEALTH 4, FLAMMABILITY 3, PHYSICAL HAZARD 0