

CUSTOMER: 327598
 BATCH #: 1672311
 PICK ZONE: EB01
 PRODUCT NAME: MEND-CON RTU, MM

ORDER #: 1539541
 DELIVERY ID: 12373433
 PICK SEQUENCE #: 4450
 BARCODE #: 12038474

Supersedes Date Not applicable

Material Safety Data Sheet: MEND-CON RTU, MM

Issuing Date 07/02/2012

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name MEND-CON RTU, MM
 Recommended use Bonding agent
 Information on Manufacturer
 CERTIFIED LABS, DIV. OF NCH CORP.
 BOX 152170
 IRVING, TEXAS 75015

Product Code 12038474
 Chemical nature Epoxy resins
 Emergency Telephone Number
 CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview
DANGER
 Causes eye irritation
 May cause allergic skin reaction
 Causes skin irritation
 Harmful if inhaled
 May be harmful if swallowed

Color White
 Potential Health Effects
 Principle Route of Exposure
 Primary Routes of Entry
 Acute Effects
 Eyes
 Skin
 Inhalation
 Ingestion
 Chronic Toxicity
 Target Organ Effects
 Aggravated Medical Conditions
 Potential Environmental Effects

Physical State Paste
 Odor Slight
 Skin contact, Inhalation.
 Eye contact, Skin Absorption, Inhalation.
 Causes eye irritation.
 Causes skin irritation. May cause sensitization by skin contact.
 Inhalation may cause central nervous system effects. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
 Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
 May cause sensitization by skin contact. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin.
 Skin, Respiratory system, Central nervous system, Liver, Kidney, Blood, Reproductive System, Immune system.
 Neurological disorders, Respiratory disorders, Skin disorders, Liver disorders, Kidney disorders, Blood disorders.
 See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No
Diglycidyl ether of bisphenol A	25085-99-8
Calcium carbonate	471-34-1
Titanium dioxide	13463-67-7
Benzyl alcohol	100-51-6
Ethylene glycol	107-21-1
Crystalline silica	14808-60-7

4. FIRST AID MEASURES

General Advice Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.
Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
Inhalation Remove from the area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur.
Notes to physician May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flash Point > 300 °F / > 149 °C
Autoignition Temperature No information available.
Flammability Limits in Air % Not applicable.
Suitable Extinguishing Media Carbon dioxide (CO2), Dry chemical, Water spray, Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards arising from the chemical Material can create slippery conditions.
Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
NFPA Health 2 Flammability 1 Instability 0
HMIS Health 2 Flammability 1 Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Material can create slippery conditions. Prevent further leakage or spillage if safe to do so.
Environmental Precautions Do not flush into surface water or sanitary sewer system.

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Methods for Containment
 Methods for Cleaning Up
 Neutralizing Agent

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
 Pick up and transfer to property labeled containers.
 Not applicable.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.
Storage Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not freeze. Protect from moisture.
Storage Temperature Minimum 40 °F / 4 °C Maximum 95 °F / 35 °C
Storage Conditions Indoor X Outdoor Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Diglycidyl ether of bisphenol A	No data available	No data available	No data available
Calcium carbonate	No data available	No data available	TWA: 10 mg/m ³ TWA: 6 mg/m ³
Titanium dioxide	TWA: 10 mg/m ³	TWA: 15 mg/m ³	IDLH: 5000 mg/m ³
Benzyl alcohol	No data available	No data available	No data available
Ethylene glycol	Ceiling: 100 mg/m ³	No data available	No data available
Crystalline silica	TWA: 0.025 mg/m ³	No data available	IDLH: 50 mg/m ³ TWA: 0.05 mg/m ³

Engineering Measures Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment
Eye/Face Protection Tightly fitting safety goggles.
Skin Protection Wear suitable protective clothing, impervious gloves.
Respiratory Protection In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Paste **Viscosity** Viscous
Color White **Odor** Slight
Appearance Opaque **pH** No data available
Specific Gravity 1.27 **Evaporation Rate** <1
Percent Volatile (Volume) >6 **VOC Content (%)** 6.2
VOC Content (g/L) 78 **Vapor Pressure** >1
Vapor Density > 1 (Air = 1) **Solubility** Negligible
Boiling Point/Range No data available

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions. Hazardous polymerization does not occur.
Conditions to Avoid Extremes of temperature and direct sunlight, Protect from moisture.
Incompatible Products Strong acids and oxidizing agents
Hazardous Decomposition Products Carbon oxides, Nitrogen oxides (NOx).
Possibility of Hazardous Reactions None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Diglycidyl ether of bisphenol A	no data available	no data available	no data available	no data available	no data available
Calcium carbonate	= 6450 mg/kg (Rat)	no data available	no data available	no data available	no data available
Titanium dioxide	> 10000 mg/kg (Rat)	no data available	no data available	no data available	no data available
Benzyl alcohol	= 1230 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	= 8.8 mg/L (Rat) 4 h	no data available	no data available
Ethylene glycol	= 4000 mg/kg (Rat)	= 9530 µL/kg (Rabbit)	no data available	no data available	no data available
Crystalline silica	= 500 mg/kg (Rat)	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Diglycidyl ether of bisphenol A	no data available	no data available	no data available	no data available	no data available
Calcium carbonate	no data available	no data available	no data available	no data available	eyes, respiratory system, skin
Titanium dioxide	no data available	no data available	no data available	no data available	respiratory system
Benzyl alcohol	no data available	Skin sensitization	no data available	no data available	Immune system
Ethylene glycol	no data available	Skin sensitization	no data available	X	eyes, CNS, respiratory system, skin, liver, kidney, heart, blood, immune system, reproductive system
Crystalline silica	no data available	no data available	no data available	no data available	eyes, respiratory system

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
Diglycidyl ether of bisphenol A	not applicable	not applicable	not applicable	not applicable	not applicable
Calcium carbonate	not applicable	not applicable	not applicable	not applicable	not applicable
Titanium dioxide	not applicable	Group 2B	not applicable	X	X
Benzyl alcohol	not applicable	not applicable	not applicable	not applicable	not applicable
Ethylene glycol	not applicable	not applicable	not applicable	not applicable	not applicable

Crystalline silica	A2	Group 1	Known	X	not applicable
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12. ECOLOGICAL INFORMATION

Product Information No information available.
Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Diglycidyl ether of bisphenol A	no data available	no data available	no data available	no data available	N/A
Calcium carbonate	no data available	no data available	no data available	no data available	N/A
Titanium dioxide	no data available	no data available	no data available	no data available	N/A
Benzyl alcohol	EC50 = 35 mg/L. Anabaena variabilis 3 h	LC50 = 460 mg/L. Pimephales promelas 96 h LC50 = 10 mg/L. Lepomis macrochirus 96 h	EC50 = 50 mg/L 5 min EC50 = 63.7 mg/L 15 min EC50 = 63.7 mg/L 5 min EC50 = 71.4 mg/L 30 min	EC50= 23 mg/L 48 h	1.1
Ethylene glycol	EC50 6500 - 13000 mg/L Pseudokirchneriella subcapitata 96 h	LC50 = 41000 mg/L. Oncorhynchus mykiss 96 h LC50 14 - 18 mL/L. Oncorhynchus mykiss 96 h LC50 = 27540 mg/L. Lepomis macrochirus 96 h LC50 = 40761 mg/L. Oncorhynchus mykiss 96 h LC50 40000 - 60000 mg/L. Pimephales promelas 96 h LC50 = 16000 mg/L. Poecilia reticulata 96 h	EC50 = 10000 mg/L 18 h EC50 = 620 mg/L 30 min EC50 = 620.0 mg/L 30 min	EC50= 46300 mg/L 48 h	-1.93
Crystalline silica	no data available	no data available	no data available	no data available	N/A

Persistence and Degradability No information available.
Bioaccumulation No information available.
Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT Not regulated
TDG Not regulated
ICAO Not regulated
IATA Not regulated
IMDG/IMO Not regulated

15. REGULATORY INFORMATION

Inventories
TSCA Complies
DSL Complies

U.S. Federal Regulations

SARA 313
 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	CAS No	Weight %	SARA 313 - Threshold Values
Ethylene glycol	107-21-1	1-5	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	No	No	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Diglycidyl ether of bisphenol A	Not applicable	Not applicable
Calcium carbonate	Not applicable	Not applicable
Titanium dioxide	Not applicable	Not applicable
Benzyl alcohol	Not applicable	Not applicable
Ethylene glycol	5000 lb	Not applicable
Crystalline silica	Not applicable	Not applicable

Canada

This product may not be commercially placed on the market in Canada.

WHMIS Hazard Class
 Not applicable

16. OTHER INFORMATION

Prepared By Angela Hutson
Supersedes Date Not applicable
Issuing Date 07/02/2012
Reason for Revision No information available.

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Glossary

No information available.

List of References.

No information available.

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Life-treated heavy paraffinic (<3% ...)