

Safety Data Sheet: MEND-CON RTU (PART A), MM

Supersedes Date 07/02/2012

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name MEND-CON RTU (PART A), MM
Recommended use Bonding agent
Information on Manufacturer
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Product Code 4091A
Chemical nature Epoxy resins
Emergency Telephone Number

Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color White

Physical State Paste

Odor Slight

GHS

Classification

Physical Hazards

Health Hazard

Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Skin Sensitization
Reproductive Toxicity
Carcinogenicity
Specific target organ systemic toxicity (single exposure)
Specific target organ systemic toxicity (repeated exposure)

Category 2
Category 2A
Category 1
Category 2
Category 1A
Category 3
Category 2

Other hazards

None

Labeling

Signal Word

DANGER***



Hazard Statements

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H373 - May cause damage to organs through prolonged or repeated exposure
H350 - May cause cancer
H361 - Suspected of damaging fertility or the unborn child

Precautionary Statements

P202 - Do not handle until all safety precautions have been read and understood
P280 - Wear protective gloves, protective clothing and eye protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace
P260 - Do not breathe mist
P271 - Use in a well-ventilated area.
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs, get medical attention
P362 - Take off contaminated clothing and wash before reuse
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists, get medical attention.
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a physician if unwell.
P403 - Store in a well-ventilated place
P233 - Keep container tightly closed
P501 - Dispose of contents and container in accordance with applicable local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Diglycidyl ether of bisphenol A	25085-99-8	30-60
Titanium dioxide	13463-67-7	1-5
Benzyl alcohol	100-51-6	1-5
Monoethylene glycol	107-21-1	1-5
Crystalline silica	14808-60-7	0.1-1

4. FIRST AID MEASURES

General advice	Avoid contact with skin, eyes and clothing. Avoid breathing mist.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
Skin Contact	Wipe up with absorbent material (e.g. cloth, fleece). 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***	Method Seta closed cup
Flammability Limits in Air %: Not applicable.	Upper No data available Lower No data available
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, NOHSC (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.
Methods for Containment	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).
Methods for Cleaning Up	Pick up and transfer to properly labeled containers.
Neutralizing Agent	Not applicable.

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	ACGIH TLV	OSHA PEL	NIOSH
Titanium dioxide	TWA: 10 mg/m ³ ***	TWA: 15 mg/m ³ total dust***	5000 mg/m ³ ***
Monoethylene glycol	Ceiling: 100 mg/m ³ ***	No data available	No data available
Crystalline silica	TWA: 0.025 mg/m ³ respirable fraction***	No data available	50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust***

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
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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

Wear protective gloves/clothing. 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
Odor Threshold	Not applicable	Appearance	Opaque
pH	Not applicable	Specific Gravity	1.27
Evaporation Rate	<1	Percent Volatile (Volume)	0
VOC Content (%)	4.7	VOC Content (g/L)	0
Vapor Pressure	>1	Vapor Density	6.8 (Air = 1)
Solubility	Negligible	n-Octanol/Water Partition	No data available
Melting Point/Range	No data available	Decomposition Temperature	No data available
Boiling Point/Range	No data available	Flammability (solid, gas)	No data available
Flash Point	*** > 300 °F*** / *** > *** 149*** ° C***	Method	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Not applicable	Upper	No data available
		Lower	No data available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Extremes of temperature and direct sunlight, Protect from moisture.
Incompatible Products	Strong acids and oxidizing agents
Decomposition Temperature	No data available
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx).
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50	2,932.77
Dermal LD50	2,715.10
Inhalation LC50	
Gas	700.00
Mist	1.50
Vapor	8.80

Principle Route of Exposure Skin contact, Inhalation.**Primary Routes of Entry** Eye contact, Skin Absorption, Inhalation.**Acute Effects****Eyes**

Causes eye irritation.

Skin

Causes skin irritation. May cause sensitization by skin contact.

Inhalation

Harmful by inhalation. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Toxicity

May cause sensitization by skin contact. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin.

Target Organ Effects

Skin, Respiratory system, Central nervous system, Liver, Kidney, Blood, Reproductive System, Immune system, Heart, Eyes.

Aggravated Medical Conditions

Neurological disorders, Respiratory disorders, Skin disorders, Liver disorders, Kidney disorders, Blood disorders.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Diglycidyl ether of bisphenol A	= >15000 mg/kg (Rat)	= 23000 mg/kg (Rabbit)		no data available	no data available
Titanium dioxide	> 10000 mg/kg (Rat)***			no data available	no data available
Benzyl alcohol	= 1230 mg/kg (Rat)***	= 2 g/kg (Rabbit)***	= 8.8 mg/L (Rat) 4 h***	no data available	no data available
Monoethylene glycol	4000 - 10200 mg/kg (Rat)***	= 10600 mg/kg (Rat)***		no data available	no data available
Crystalline silica	= 500 mg/kg (Rat)***			no data available	no data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Titanium dioxide	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, CNS
Monoethylene glycol	no data available		no data available	no data available	eyes, CNS, respiratory system, skin, liver, kidney, heart, blood, immune system, reproductive system***
Crystalline silica	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
Titanium dioxide	not applicable	not applicable	not applicable	X	not applicable
Crystalline silica	A2***	Group 1***	Known***	X***	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Benzyl alcohol	EC50 = 35 mg/L Anabaena variabilis 3 h ***	LC50 = 10 mg/L Lepomis macrochirus 96 h LC50 = 460 mg/L Pimephales promelas 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	23: 48 h water flea mg/L EC50 ***	1.1***
Monoethylene glycol	EC50 6500 - 13000 mg/L Pseudokirchneriella subcapitata 96 h ***	LC50 14 - 18 mL/L Oncorhynchus mykiss 96 h LC50 40000 - 60000 mg/L Pimephales promelas 96 h LC50 = 16000 mg/L Poecilia reticulata 96 h LC50 = 27540 mg/L Lepomis macrochirus 96 h LC50 = 40761 mg/L Oncorhynchus mykiss 96 h LC50 = 41000 mg/L Oncorhynchus mykiss 96 h ***	EC50 = 10000 mg/L 16 h EC50 = 620 mg/L 30 min EC50 = 620.0 mg/L 30 min	46300: 48 h Daphnia magna mg/L EC50 ***	-1.93***

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
Monoethylene 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
Monoethylene glycol	5000 lb***	Not applicable

16. OTHER INFORMATION

Prepared By Rachael Mohochi
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 Reason for Revision No information available.
 Glossary No information available.
 List of References. No information available.

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