



SAFETY DATA SHEET

Product: MARC 43 THERMAL LOCK™

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 43 THERMAL LOCK™**

SDS DATE: 01/26/2023

SUPPLIER: Mid-American Research Chemical Corp. ADDRESS: P. O. Box 927 • Columbus, NE 68602-0927
PHONE: 402-564-7104 FAX: 402-563-1290
EMERGENCY PHONE: InfoTrac 1-800-535-5053
E-MAIL: marc1@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Floor finish.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Serious eye damage/eye irritation – Category 2A.
OSHA Regulatory Status: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).



SIGNAL WORD AND HAZARD PICTOGRAM: **WARNING:** Causes serious eye irritation.

HAZARD AND PRECAUTIONARY STATEMENTS: Prevention: Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200).

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>WT. %</u>
Polyethylene Glycol, Mono (P-Nonylphenyl)		
Ether, Branched	127087-87-0	0.5-3
Ammonium Carbonate	506-87-6	0.5-3
Zinc Oxide	1314-13-2	0.5-3
Diethylene Glycol Monoethyl Ether	111-90-0	2-6

*The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with running water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, obtain medical attention.

SKIN: Wash off immediately with soap and plenty of water for at least 15 minutes. Immediately remove contaminated clothing and wash before reuse. If skin irritation persists, call a physician.

INGESTION: **DO NOT INDUCE VOMITING.** Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

INHALATION: Move to fresh air. If symptoms persist, call a physician.

SELF-PROTECTION OF THE FIRST AIDER: Use personal protective equipment as required. (See Section 8).

SYMPTOMS/INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND EFFECTS, BOTH ACUTE AND DELAYED: No information available.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically. May cause sensitization of susceptible persons.

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Dry chemical, CO2 or water spray.

UNSUITABLE EXTINGUISHING MEDIA: Do not use a solid water stream as it may scatter and spread fire.



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SPECIAL FIRE FIGHTING PROCEDURES: **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.

UNUSUAL FIRE AND EXPLOSION HAZARDS: In the event of a fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Sensitivity to Mechanical Impact: No information available.
Sensitivity to Static Discharge: No information available.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains, waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

PROTECTIVE EQUIPMENT: Use personal protective devices as stated in Section 8. Avoid contact with eyes and skin.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Same as EMERGENCY PROCEDURES.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING/STORAGE: Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required (see Section 8). Keep container tightly closed in a cool, well-ventilated place.

OTHER PRECAUTIONS: **KEEP OUT OF REACH OF CHILDREN!! CAREFULLY READ ENTIRE LABEL BEFORE USE!**

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL
Zinc Oxide 1314-13-2	STEL: 10mg/m ³ respirable fraction TWA: 2mg/m ³ respirable fraction	TWA: 5mg/m ³ fume. TWA: 15mg/m ³ total dust. TWA: 5mg/m ³ respirable fraction TWA: 10mg/m ³ total dust. STEL: 10mg/m ³ fume.
Diethylene Glycol Monoethyl Ether 111-90-0	TWA: 25 ppm	

NIOSH IDLH Immediately Dangerous to Life or Health

ENGINEERING CONTROLS/

VENTILATION: Ventilation systems.

MECHANICAL: N/A

OTHER: N/A

RESPIRATORY PROTECTION: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

EYE PROTECTION: Tight sealing safety goggles.

SKIN PROTECTION/PROTECTIVE GLOVES: Wear protective gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear protective clothing. Showers and eyewash stations.



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WORK HYGIENIC PRACTICES: When using do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-

PHYSICAL STATE: Liquid.
COLOR: Milky White.
ODOR: Slight.
Property **Values**
pH: 8
MELTING/FREEZING POINT: 0°C / 32°F
BOILING POINT: 100°C / 212°F
FLASH POINT/METHOD USED: >100°C / >212°F

Remarks*Method

EVAPORATION RATE: No information available.
FLAMMABILITY solid, gas) No information available.
FLAMMABILITY LIMIT IN AIR:
 UPPER FLAMMABILITY LIMIT: No information available.
 LOWER FLAMMABILITY LIMIT: No information available.
VAPOR PRESSURE (mmHg): No information available.
VAPOR DENSITY (AIR = 1): No information available.
SOLUBILITY IN WATER: Miscible in water.
SOLUBILITY IN OTHER SOLVENTS: No information available.
PARTITION COEFFICIENT: No information available.
AUTO-IGNITION TEMPERATURE: No information available.
DECOMPOSITION TEMPERATURE: No information available.
KINEMATIC VISCOSITY: No information available.
DYNAMIC VISCOSITY: No information available.
EXPLOSIVE PROPERTIES: No information available.
OXIDIZING PROPERTIES: No information available.

Other Information

EXPLOSION SEVERITY
DANGER OF EXPLOSION, CLOUD: No information available.
MINIMUM IGNITION ENERGY, CLOUD,
mJ No information available.
KST, (CLOUD), BAR.M.S-1: No information available.
PMAX MAXIMUM EXPLOSION
PRESSURE, CLOUD BAR: No information available.
VMP, (CLOUD), BAR.S-1 No information available.
LOC LIMITING OXYGEN
CONCENTRATION, CLOUD, %v/v O2
SOFTENING POINT: No information available.
MOLECULAR WEIGHT: No information available.
DENSITY: No information available.
BULK DENSITY: No information available.
SPECIFIC GRAVITY: 1.03
GRANULOMETRY: No information available.
MOISTURE CONTENT: No information available.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No data available.
STABILITY: Stable under recommended storage conditions.
CONDITIONS TO AVOID: Extremes of temperature and direct sunlight.
INCOMPATIBILITY (MATERIAL TO AVOID): None known based on information supplied.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons.
HAZARDOUS POLYMERIZATION: None under normal processing. **CONDITIONS TO AVOID (POLYMERIZATION):** None known.

SECTION 11: TOXICOLOGICAL INFORMATION

EYES: Causes eye damage/eye irritation.



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SKIN: No data available.

INHALATION: No data available

INGESTION: No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Polyethylene Glycol, Mono(P-Nonylphenyl) Ether, Branched 127087-87-0	= 1310 mg/kg (Rat)	-	-
Ammonium Carbonate 506-87-6	=2150 mg/kg (Rat)	-	-
Zinc Oxide 1314-13-2	>5000 mg/kg (Rat)	-	-
Diethylene Glycol Monoethyl Ether 111-90-0	6031 mg/kg (Rat)	9143 mg/kg (Rabbit)	>5.24 mg/L (Rat) (8 hrs.)

INFORMATION ON TOXICOLOGICAL EFFECTS

SYMPTOMS: No information available.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

SENSITIZATION

GERM CELL MUTAGENICITY: No information or data specific to the product on this toxicological (health) effect is available.

CARCINOGENICITY: No information or data specific to the product on this toxicological (health) effect is available.

REPRODUCTIVE TOXICITY: No information or data specific to the product on this toxicological (health) effect is available.

STOT – SINGLE EXPOSURE: No information or data specific to the product on this toxicological (health) effect is available.

STOT – REPEATED EXPOSURE: No information or data specific to the product on this toxicological (health) effect is available

CHRONIC TOXICITY: Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.

TARGET ORGAN EFFECTS: Respiratory system.

ASPIRATION HAZARD: No information or data specific to the product on this toxicological (health) effect is available.

NUMERICAL MEASURES OF TOXICITY – PRODUCT INFORMATION

The following values are calculated based on chapter 3.1 of the GHS document.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

Chemical Name	Fish
Ammonium Carbonate	37 mg/L LC50 96 h Pimephales promelas
Diethylene Glycol Monoethyl Ether	6,010 mg/L LC50 (Fish, 96 hr.) 1,982 mg/L EC50 (Daphnia, 48 hr.)

Persistence and Degradability: No information available.

Bio Accumulative Potential: No information available.

Mobility in Soil: N/A

Aquatic Toxicity: N/A

Other adverse effects: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Disposal should be in accordance with applicable regional, national and local laws and regulations.

CONTAMINATED PACKAGING: Do not reuse container.



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SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (for ground/non-bulk containers)

CONTAINER SIZES(S): Drums, Pails
PROPER SHIPPING NAME: BUFFING OR POLISHING COMPOUND.
HAZARD CLASS: None
ID NUMBER: None
PACKING GROUP: None
LABEL STATEMENT: None

SECTION 15: REGULATORY INFORMATION

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 Code of Federal regulations, Part 372.

Chemical Name	SARA 313 – Threshold Values %
Ammonium Carbonate – 506-87-6	1.0
Zinc Oxide – 1314-13-2	1.0

SARA 311/312 HAZARD CATEGORIES:

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

CERCLA:

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammonium Carbonate 506-87-6	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 0
 Flammability = 0
 Reactivity = 0
 Other = -
 Protection = X

DISCLAIMER: While the information contained herein is believed to be correct, no warranties are made with respect thereto, and all liability from reliance thereon is disclaimed.