



SAFETY DATA SHEET

Product: MARC 284 STAINLESS STEEL WIPES

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 284 STAINLESS STEEL WIPES**

SDS DATE: 08/18/2022

SUPPLIER: Mid-American Research Chemical Corp.

ADDRESS: P. O. Box 927 • Columbus, NE 68602-0927

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E-MAIL: marc1@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Cleaning stainless steel and other metals.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Aspiration Toxicity	Category 1
Skin Sensitivity	Category 1

SIGNAL WORD AND HAZARD STATEMENTS-- DANGER: May be fatal if swallowed and enters airways. May cause an allergic skin reaction. **PRECAUTIONARY STATEMENTS:** Avoid breathing fumes. Contaminated work clothing must not be allowed out of the workplace. Wear eye protection, protective gloves. If swallowed: Immediately call a doctor, a POISON CENTER. If on skin: Wash with plenty of water. Do NOT induce vomiting. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	WEIGHT %	TRADE SECRET
Hydrocarbons, C11-C14, n-alkanes, cyclics, <2% aromatics	64742-47-7	30 - 60	*
White Mineral Oil	8042-47-5	15 - 40	*
d-limonene	5989-27-5	1 - 5	*

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

SECTION 4: FIRST AID MEASURES

First-aid measures general: If you feel unwell, seek medical advice (show the label where possible). First-aid measures after inhalation: Remove the victim into fresh air. First-aid measures after skin contact: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. First-aid measures after eye contact: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. First-aid measures after ingestion: Rinse mouth with water. Do NOT induce vomiting. Immediately call a poison center or doctor/physician. Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use. Symptoms/injuries after inhalation: None under normal use. Symptoms/injuries after skin contact: May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking. Symptoms/injuries after eye contact: Direct contact with the eyes is likely irritating. Symptoms/injuries after ingestion: May be fatal if swallowed and enters airways. Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical powder. **UNSUITABLE EXTINGUISHING MEDIA:** Do not use extinguishing media containing water. **PRECAUTIONS:** Combustible liquid. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water. Do not enter fire area without proper protective equipment, including respiratory protection. **HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide and dioxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Isolate from fire, if possible without unnecessary risk. **PROTECTIVE EQUIPMENT:** Safety glasses, protective gloves and clothing. **PRECAUTIONS:** Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ensure



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adequate ventilation. **METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:** Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers. **ENVIRONMENTAL PRECAUTIONS:** Avoid release to the environment, sewers and public waters.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING AND STORAGE: Comply with the legal requirements. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Hygiene measures: Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Technical measures: Comply with applicable regulations. Storage conditions: Store in a well-ventilated place. Keep cool. Store locked up. Incompatible products: Oxidizing agent. Incompatible materials: Sources of ignition. Heat sources. Prohibitions on mixed storage: KEEP SUBSTANCE AWAY FROM: oxidizing agents. Storage area: Meet the legal requirements. Special rules on packaging: Meet the legal requirements.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

CHEMICAL NAME	ACGIH TLV	OSHA PEL	NIOSH IDLH
White Mineral Oil 8042-47-5	TWA: 5mg/m ³ Inhalable fraction excluding metal working fluids, highly & severely refined	TWA: 5 mg/m ³ (vacated) TWA: 5 mg/m ³	IDLH: 2500 mg/m ³ TWA: 5 mg/m ³ STEL: 10 mg/m ³

Personal protective equipment: Safety glasses and gloves. Use appropriate personal protective equipment when risk assessment indicates this is necessary.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid absorb in wipes
COLOR:	Colorless.
ODOR:	Citrus.
ODOR THRESHOLD:	No information available.
pH:	No data available.
MELTING/FREEZING POINT:	No data available.
INITIAL BOILING POINT/RANGE:	No data available.
FLASH POINT/METHOD USED:	197°
EVAPORATION RATE:	No data available.
FLAMMABILITY (solid, gas):	No data available
FLAMMABILITY LIMITS (%):	LOWER: No data available. UPPER: No data available.
VAPOR PRESSURE (mmHg):	No data available.
VAPOR DENSITY (AIR = 1):	> 1 (air = 1)
SPECIFIC GRAVITY (H₂O = 1):	0.81
SOLUBILITY IN WATER:	Liquid not soluble
VISCOSITY-KINEMATIC:	<20 cSt for liquid
EXPLOSIVE PROPERTIES:	No data available.
OXIDIZING PROPERTIES:	No data available.
VOC CONTENT (%):	<3% - liquid

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Combustion release carbon monoxide and dioxide. **CHEMICAL STABILITY:** Stable under recommended storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS: None under normal use
CONDITIONS TO AVOID: None known based on information supplied.
INCOMPATIBILITY (MATERIAL TO AVOID): None known based on information supplied.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None known based on information supplied.
HAZARDOUS POLYMERIZATION: Does not occur. **CONDITIONS TO AVOID (POLYMERIZATION):** Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: Not classified

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)
LD50 dermal rabbit > 5000 mg/kg body weight (Rabbit; Literature)

(+)-limonene (5989-27-5)



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LD50 oral rat 4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Read-across)
LD50 dermal rabbit > 5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402)
ATE CLP (oral) 4400.000 mg/kg body weight

White mineral oil (petroleum) (8042-47-5)

LD50 oral rat > 5000 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit > 2000 mg/kg body weight (Rabbit; Experimental value; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l) > 5 mg/l/4h (Rat; Experimental value)

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitization: May cause an allergic skin reaction. Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

(+)-limonene (5989-27-5)

IARC group 3 - Not Classifiable

White mineral oil (petroleum) (8042-47-5)

IARC group 3 - Not classifiable.
Reproductive toxicity: Not classified.
Specific target organ toxicity (single exposure): Not classified.
Specific target organ toxicity (repeated exposure): Not classified.
Aspiration hazard: May be fatal if swallowed and enters airways. Symptoms/injuries after inhalation: None under normal use.
Symptoms/injuries after skin contact: May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.
Symptoms/injuries after eye contact: Direct contact with the eyes is likely irritating. Symptoms/injuries after ingestion: May be fatal if swallowed and enters airways.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic life with long lasting effects. **Persistence, Degradability, Bioaccumulative:** No information available.

CHEMICAL NAME	TOXICITY TO ALGAE	TOXICITY TO FISH	TOXICITY TO MICROORGANISMS	DAPHNIA MAGNA (WATER FLEA)
Isoparaffinic Hydrocarbon 64742-47-8		LC50 96 h: = 45 mg/L Flow-through (Pimephales Promelas) LC50 96 h: = 2.2 mg/L static (Lepomis Macrochirus) LC50 96 h: = 2.4 mg/L static (Oncorhynchus mykiss)		LC50 96 h: = 4720 mg/L (Den-dronereides heteropoda)
White Mineral Oil 8042-47-5		LC50 96 h: > 10000 mg/L (Lepomis Macrochirus)		
Naphtha (petroleum) hydrotreated heavy 64742-48-9		LC50 96 h: = 2200 mg/L (Pimephales Promelas)		LC50 96 h: = 2.6 mg/L (Chaetogammarus marinus)
2,6-Di-tert-butyl-p-cresol 128-37-0	EC50 72 h: = 6 mg/L (Pseudokirchneriella subcapitata) EC50 72 h: > 0.42 mg/L (Desmodesmus Subspicatus)	LC50 96 h: = 5 mg/L (Oryzias latipes)	EC50 = 7.82 mg/L 5 min EC50 = 8.57 mg/L 15 min EC50 = 8.98 mg/L 30 min	

CHEMICAL NAME	LOG POW
White Mineral Oil	6.006
2,6-Di-tert-butyl-p-cresol	4.17

Other adverse effects: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Do not flush wipes. Dispose of in accordance with federal, state and local regulations.



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SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (for ground/non-bulk containers)- NOT REGULATED

CONTAINER SIZES(S): ALL
 PROPER SHIPPING NAME: TOWELS AND CLEANSING CLOTHS.
 HAZARD CLASS: N/A
 ID NUMBER: None
 PACKING GROUP: None
 LABEL STATEMENT: None

SECTION 15: REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

TSCA Complies.

LEGEND

TSCA - United States Toxic Substances Control Act Section 8 (b) Inventory.
 DSL/NDL - Canadian Domestic substances List/Non-Domestic Substances List.

U.S. FEDERAL REGULATIONS: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

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

CLEAN WATER ACT

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the comprehensive Environmental Response compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) 40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. STATE REGULATIONS

CALIFORNIA PROPOSITION 65

This product does not contain any Proposition 65 chemicals.

U.S. STATE RIGHT-TO-KNOW REGULATIONS

"X" designates that the ingredients are listed on the state right to know list.

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA	ILLINOIS	RHODE ISLAND
White Mineral Oil	X	X	X		X
2,6-Di-tert-butyl-p-cresol	X	X	X		X

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 1, Flammability = 2, Reactivity = 0.

N/A = Not Applicable, N/D = Not Determined, N/E = Not Established

DISCLAIMER: The information provided on this SDS is correct to best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.