SAFETY DATA SHEET

Product: MARC 283 CARPET SPOTTING TOWELS

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 283 CARPET SPOTTING TOWELS

SDS DATE: 04/08/16

SUPPLIER: Mid-American Research Chemical Corp. **ADDRESS: P. O. Box 927 Columbus, NE 68602-0927**
PHONE: 402-564-7104 FAX: 403-563-1290
EMERGENCY PHONE: InfoTrac 1-800-535-5053
E-MAIL: marc@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Carpet cleaning towel.

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).

Serious Eye damage/Eye Irritation	Category 2
Flammable liquids	Category 4

SIGNAL WORD AND PRECAUTIONARY STATEMENTS: WARNING: Causes serious eye irritation. Combustible liquid.

PRECAUTIONARY STATEMENTS: Keep away from heat/sparks/open flames/hot surfaces – No smoking. Store in a well-ventilated place. Keep cool.

POTENTIAL HEALTH EFFECTS: See Section 11 for more information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

INGREDIENT	CAS NO.	WEIGHT %	TRADE SECRET
Diethylene glycol monobutyl ether	112-34-5	10 – 30 %	*
Isopropyl alcohol	67-63-0	1 – 5%	*

SECTION 4: FIRST AID MEASURES

EYES: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.

SKIN: Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

INGESTION: Not an expected route of exposure. Large amounts: **DO NOT INDUCE VOMITING!** Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

INHALATION: Not an expected route of exposure. Move to fresh air. If symptoms arise, call a physician.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED; No information available.

INDICATION OF IMMEDIATE MEDICAL ATTENTION & SPECIAL TREATMENT NEEDED, IF NECESSARY:

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical. Foam. Carbon dioxide (CO2). Water spray or fog.

UNSUITABLE EXTINGUISHING MEDIA: **CAUTION:** Use of water spray when fighting fire may be inefficient.

SPECIAL FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to cool surrounding containers.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors may travel to source of ignition and flash back.

EXPLOSION DATA

Sensitivity to mechanical impact	None
Sensitivity to static discharge	Yes

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURE: **Small spillage:** Wipe up with absorbent material (e.g. cloth, fleece). **Large spillage:** Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT: Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment. Avoid contact with eyes. See Section 8.

ENVIRONMENTAL PRECAUTIONS: See Section 12 for additional Ecological Information. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system..

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Same as Emergency Procedures. Prevent leakage or spillage if safe to do so.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING: Avoid contact with skin and eyes. Avoid breathing vapors or mists. Do not take internally. Do not smoke. Handle in accordance with good industrial hygiene and safety practice.

OTHER PRECAUTIONS: **KEEP OUT OF REACH OF CHILDREN!**

INCOMPATIBLE PRODUCTS: Strong alkalis. Strong oxidizing agents.

STORAGE: Keep container closed when not in use. Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep from freezing. Do not contaminate food or feed stuffs.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

INGREDIENT	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m³ (vacated) STEL: 500 ppm (vacated) STEL:1225 mg/m³	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m³ TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m³

ENGINEERING CONTROLS/ VENTILATION: Ensure adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

RESPIRATORY PROTECTION: None required under normal usage. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

EYE/FACE PROTECTION: None required under normal usage. If direct contact possible: Safety glasses with side-shields.

SKIN PROTECTION/PROTECTIVE GLOVES: No special protective equipment required.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Showers, eyewash stations, ventilation systems.

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-		
PHYSICAL STATE:	Liquid	
COLOR:	Colorless	
ODOR:	Orange	
ODOR THRESHOLD:	No information available.	
pH:	9.0 – 10.0	
MELTING POINT:	No data available**.**	
BOILING POINT:	100°C / 212°F	
FLASH POINT:	73.889°C / 165°F	
EVAPORATION RATE:	No data available.	
FLAMMABILITY (solid, gas):	No data available.	
FLAMMABILITY LIMITS IN AIR:	**UPPER FLAMMABILITY LIMIT:**	No data available.
	LOWER FLAMMABILITY LIMIT:	No data available.
VAPOR PRESSURE (mmHg):	No data available.	
VAPOR DENSITY (AIR = 1):	>1	
RELATIVE DENSITY:	No data available.	
SPECIFIC GRAVITY (H2O = 1):	1.008	
SOLUBILITY IN WATER:	Completely soluble.	
PARTITION COEFFICIENT, n-OCTANOL/WATER:	No data available.	
AUTO-IGNITION TEMPERATURE:	No data available.	
DECOMPOSITION TEMPERATURE:	No data available.	
VISCOSITY:	No data available.	
FLAMMABLE PROPERTIES:	Not flammable.	
EXPLOSIVE PROPERTIES:	No data available.	
OXIDIZING PROPERTIES:	No data available.	

OTHER INFORMATION:
VOC Content (%): 2%

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No data available.

CHEMICAL STABILITY: Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: None under normal processing.

CONDITIONS TO AVOID: Incompatible products.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong alkalis. Strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide (CO). Carbon Dioxide (CO2). Smoke Soot.

HAZARDOUS POLYMERIZATION: N/A **CONDITIONS TO AVOID (POLYMERIZATION):** NA

SECTION 11: TOXICOLOGICAL INFORMATION

EYES: Causes serious eye irritation.

SKIN: Repeated exposure may cause skin dryness or cracking.

INGESTION: Not an expected route of exposure.

INHALATION: Vapors may cause drowsiness and dizziness.

CHEMICAL NAME	D50 ORAL	LD50 DERMAL	LC50 INHALATION
Diethylene glycol monobutyl ether	=3384 mg/kg (Rat)	=2700 mg/kg (Rabbit)	-
Isopropyl alcohol	=4396 mg/kg (Rat)	12800 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat) 4h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms: No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization: No information available.
Mutagenic Effects: No information available.
Carcinogenicity: Contains no ingredients above reportable quantities listed as a carcinogen.

CHEMICAL NAME	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol		Group 3		

IARC: (International Agency for Research on Cancer)
Group 3: Not Classifiable as to its Carcinogenicity to Humans
OSHA: (Occupational Safety & Health Administration)
X – Present

Reproductive Toxicity No information available.
STOT – single exposure No information available.
STOT – repeated exposure No information available.
Aspiration Hazard No information available.

Numerical measures of toxicity – Product
The following values are calculated based on chapter 3.1 of the GHS document:
LD50 Oral: 19624 mg/kg; Acute toxicity estimate
LD50 Dermal: 18000 mg/kg; Acute toxicity estimate
Inhalation
Dust/mist: 2989.1 mg/L; Acute toxicity estimate

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Diethylene glycol monobutyl ether 112-34-5	EC50 96 h:> 100 mg/L (Desmodesmus subspicatus)	LC50 96 h:= 1300 mg/L static (Lepomis macrochirus)		EC50 24 h:= 2850 mg/L (Daphnia magna) EC50 48 h:> 100 mg/L (Daphnia magna)
Isopropyl alcohol 67-63-0	EC50 96 h:> 1000 mg/L (Desmodesmus subspicatus) EC50 72 h:> 1000 mg/L (Desmodesmus subspicatus)	LC50 96 h:= 11130 mg/L static (Pimephales promelas) LC50 96 h:= 9640 mg/L flow-through (Pimephales promelas) LC50 96 h: > 1400000 µg/L (Lepomis macrochirus)		EC50 48 h:= 13299 mg/L (Daphnia magna)

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

CHEMICAL NAME	LOW POW
Isopropyl alcohol	0.05

Other adverse effects
No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state, and local regulations.

CONTAMINATED PACKAGING: Do not re-use empty containers.

CHEMICAL NAME	CALIFORNIA HAZARDOUS WASTE
Isopropyl alcohol	Toxic Ignitable

SECTION 14: TRANSPORT INFORMATION

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

DOT Not regulated.

CONTAINER SIZES(S): SPECIAL
PROPER SHIPPING NAME: TOWELS OR CLEANSING CLOTHS.
HAZARD CLASS: NONE
ID NUMBER: NONE
PACKING GROUP: NONE
LABEL STATEMENT: NONE

SECTION 15: REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

LEGEND
TSCA – United States Toxic Substances Control Act Section 8(b) Inventory. All components of this product are either listed or are exempt on the TSCA inventory.

DSL/NDSL – 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 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:

CHEMICAL NAME	CAS-NO	WEIGHT %	SARA 313 – Threshold Values %
Diethylene glycol monobutyl ether	112-34-5	15	1.0
Isopropyl alcohol	67-63-0	2	1.0

SARA 311/312 HAZARD CATEGORIES:

Acute Health Hazard	Yes
Chronic Health 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 4 CFR 122.42).

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): 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
Diethylene glycol monobutyl ether	X		X	X	
Isopropyl alcohol	X	X	X		X

U.S. EPA Label Information
EPA Pesticide Registration Number Not applicable.

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings:	**Health =**	**2**
	Flammability =	**2**
	Reactivity =	**0**
	Other =	**-**
	Protection =	**X**

REVISION DATE: 0**4/08/16**

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

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.