



SAFETY DATA SHEET

Product: MARC 289 FULL COURT FINISH PC

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 289 FULL COURT FINISH PC

SDS DATE: 11/1618

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: marc@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Gym floor finish.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

OSHA/HCS STATUS: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

CLASSIFICATION: Not classified. Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 31%. There is no toxicity data available for the polymer in this product, which is exempt and categorized in a low concern functional group under the EPA's Toxic Substances Control Act (TSCA).

GHS LABEL ELEMENTS & SIGNAL WORD : No signal word.

HAZARD STATEMENTS: No known significant effects or critical hazards.

PRECAUTIONARY STATEMENTS: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

POTENTIAL HEALTH EFFECTS: See Section 11 for more information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	%	CAS NUMBER
2-butoxyethanol	1-5	111-76-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

SKIN: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur

INGESTION: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. **DO NOT INDUCE VOMITING** unless directed to do so by medical personnel. Get medical attention if symptoms occur.

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SPECIFIC TREATMENTS: No specific treatment. **PROTECTION OF FIRST-AIDERS:** No action shall be taken involving any personal risk or without suitable training. **SEE TOXICOLOGICAL INFORMATION (Section 11).**



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SECTION 5: FIRE FIGHTING MEASURES

- SUITABLE EXTINGUISHING MEDIA:** Use an extinguishing agent suitable for the surrounding fire.
- UNSUITABLE EXTINGUISHING MEDIA:** None known.
- SPECIAL FIRE FIGHTING PROCEDURES/ PROTECTIVE EQUIPMENT:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** In a fire or if heated, a pressure increase will occur and the container may burst.
- HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- FOR NON-EMERGENCY PERSONNEL:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
- FOR EMERGENCY PROCEDURES:** Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- PROTECTIVE EQUIPMENT:** Use personal protective devices as stated in Section 8.
- METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:**
- SMALL SPILL:** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- LARGE SPILL:** Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (See Section 13). Dispose of via a licensed waste disposal contractor. Note: See Section 1 for emergency contact information.
- ENVIRONMENTAL PRECAUTIONS:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

SECTION 7: HANDLING AND STORAGE

- GENERAL/SAFE HANDLING:** Put on appropriate personal protective equipment (See Section 8).
- OTHER PRECAUTIONS:** **KEEP OUT OF REACH OF CHILDREN!** Carefully read label before use. If medical advice is needed, have product container or label at hand.
- STORAGE:** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits: None

INGREDIENT NAME	EXPOSURE LIMITS
2-butoxyethanol	ACGIH TLV (United States, 6/2013). TWA: 20 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. TWA: 25 ppm 8 hours. TWA: 120 mg/m ³ 8 hours.



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	NIOSH REL (United States, 4/2013). Absorbed through skin. TWA: 5 ppm 10 hours. TWA: 24 mg/m ³ 10 hours. OSHA PEL (United States, 2/2013). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 240 mg/m ³ 8 hours.
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ENGINEERING CONTROLS: Good general ventilation should be sufficient to control worker exposure to airborne contaminants..

VENTILATION : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

RESPIRATORY PROTECTION: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

EYE/FACE PROTECTION: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Safety glasses with side-shields.

SKIN PROTECTION/PROTECTIVE GLOVES: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer[, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that eyewash stations and safety showers are close to the workstation location.

WORK HYGIENIC PRACTICES: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-	
PHYSICAL STATE/COLOR:	Opaque Whitish Liquid.
ODOR:	Bland.
ODOR THRESHOLD:	Not available.
SOLUBILITY IN WATER:	Not available.
SPECIFIC GRAVITY:	1.02 g/cm ³
MELTING POINT:	0°C (32°F)
BOILING POINT:	100°C (212°F)
pH:	8
FLASH POINT/METHOD USED:	Closed cup: >93.334°C (>200°F)
EVAPORATION RATE:	Not Available.
FLAMMABILITY (solid, gas):	Not available.
FLAMMABILITY LIMITS:	LOWER and UPPER: Not available.
VAPOR PRESSURE (mmHg):	<4 kPa (<30 mm Hg) [room temperature]
VAPOR DENSITY (AIR = 1):	>1 [Air = 1]
PARTITION COEFFICIENT, n-OCTANOL/WATER:	Not available.
AUTO-IGNITION TEMPERATURE:	Not available.
DECOMPOSITION TEMPERATURE:	Not available.
VISCOSITY:	Not available.
VOC CONTENT:	274 g.l

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No specific test data related to reactivity available for this product or its ingredients.
STABILITY: Stable



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CONDITIONS TO AVOID: No specific data.

INCOMPATIBILITY (MATERIAL TO AVOID): No specific data.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
2-(2-butoxyethoxy) ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
	LD50 Dermal	Rabbit	8 g/kg	-

IRRITATION/CORROSION

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	SCORE	EXPOSURE	OBSERVATION
2-butoxyethanol	Eyes – Moderate irritant	Rabbit	-	24 hours 100 Milligrams	-
	Eyes – Severe irritant	Rabbit	-	100 milligrams	-
	Skin – Mild irritant	Rabbit	-	500 Milligrams	-

SENSITIZATION

Not available.

MUTAGENICITY

Not available.

CARCINOGENICITY

Not available.

PRODUCT/INGREDIENT NAME	OSHA	IARC	NTP
2-butoxyethanol	-	3	-

REPRODUCTIVE TOXICITY

Not available.

TERATOGENICITY

Not available.

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

Not available.

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)

Not available.

ASPIRATION HAZARD

Not available.

INFORMATION ON THE LIKELY

ROUTES OF EXPOSURE: Not available.

POTENTIAL ACUTE HEALTH EFFECTS

EYES: No known significant effects or critical hazards.

SKIN: No known significant effects or critical hazards.

INGESTION: No known significant effects or critical hazards.

INHALATION: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

EYES: No specific data.

SKIN: No specific data.

INGESTION: No specific data

INHALATION: No specific data

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE



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SHORT TERM EXPOSURE

Potential immediate effects: Not available.

Potential delayed effects: Not available.

LONG TERM EXPOSURE

Potential immediate effects: Not available.

Potential delayed effects: Not available.

POTENTIAL CHRONIC HEALTH EFFECTS

Not available.

General : No known significant effects or critical hazards
Carcinogenicity: No known significant effects or critical hazards
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.

NUMERICAL MEASURES OF TOXICITY

ACUTE TOXICITY ESTIMATES

Route	ATE value
Oral	33223.2 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY

PRODUCT/INGREDIENT NAME	RESULTS	SPECIES	EXPOSURE
2-butoxyethanol	Acute EC50 1000 mg/l Fresh water	Daphnia – daphnia magna	48 hours
	Acute LC50 800000 µg/l Marine Water	Crustaceans – Cranon crangon	48 hours
	Acute LC50 1250000 µg/l Marine Water	Fish – Menidia beryllina	96 hours

PERSISTENCE AND DEGRADABILITY:

Not available.

BIOACCUMULATIVE POTENTIAL

PRODUCT/INGREDIENT NAME	LogPow	BCP	Potential
2-(2-butoxyethoxy) ethanol	1	-	low
N-methyl-2-pyrrolidone	-0.46	-	low
2-butoxyethanol	0.81	-	low

MOBILITY IN SOIL:

Not available.

Soil/water partition Coefficient (K_{oc})

OTHER ADVERSE EFFECTS: No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

SECTION 14: TRANSPORT INFORMATION

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

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



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SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

CLEAN AIR ACT SECTION 112 Not listed.

(b) Hazardous Air Pollutants (HAPs)

TSCA (TOXIC SUBSTANCE CONTROL ACT): United States inventory (TSCA 8b): All components are listed or exempted

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A

SARA 311/312 HAZARD CATEGORIES:

Classification: Not applicable.

COMPOSITION/INFORMATION ON INGREDIENTS

NAME	%	FIRE HAZARD	SUDDEN RELEASE OF PRESSURE	REACTIVE	IMMEDIATE (ACUTE) HEALTH HAZARD	DELAYED (CHRONIC) HEALTH HAZARD
2-butoxyethanol	1-5	Yes	No	No	Yes	No

SARA TITLE III, SECTION 313 COMPONENTS

	PRODUCT NAME	CAS NUMBER	%
Form R – Reporting requirements	2-butoxyethanol	111-76-2	2.7

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

STATE REGULATIONS

WARNING: Reproductive harm – California Proposition 65.

INTERNATIONAL REGULATIONS

Canada inventory: All components are listed or exempted.

SECTION 16: OTHER INFORMATION

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

REVISION DATE: 11/16/2018

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.