



# SAFETY DATA SHEET

Product: MARC 326 WHITE BOARD CLEANER

Form R04132

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 326 WHITE BOARD CLEANER

SDS DATE: 07/13/16

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: White board cleaner.

PREPARED BY: MARC

## SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: This material is hazardous under the criterion of the Federal OSHA Hazard Communication standard 29 CFR 1910.1200.

Flammable liquids – Category 2  
Eye irritation – Category 2A  
Specific target organ toxicity – single exposure – Category 3



**SIGNAL WORD AND PRECAUTIONARY STATEMENTS:** **DANGER:** Flammable liquid and vapor. Causes eye irritation. May cause skin irritation. May be harmful if swallowed. Keep away from heat, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Wear protective gloves and eye protection. Avoid breathing vapors or mists. Wash skin thoroughly after handling. Use only in a well-ventilated area. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If irritation persists, seek medical attention. **IF ON SKIN:** Immediately take off all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs, seek medical advice. Wash contaminated clothing before reuse. **IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. **IF SWALLOWED:** Call a **POISON CENTER** or seek medical advice if you feel unwell. **IN CASE OF FIRE:** Use dry sand, dry chemical or alcohol-resistant foam for extinction. Store locked up in a cool, dry, well-ventilated area. Dispose of contents in accordance with all applicable local, regional and national regulations.

**OTHER HAZARDS:** No data available.

**POTENTIAL HEALTH EFFECTS:** See Section 11 for more information.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>PERCENT</u>
Isopropanol	67-63-0	8% - 14%
2-Butoxyethanol	111-76-2	2% - 4%
Nonylphenol Ethoxylate	127087-81-0	1% - 3%

Percentage of composition has been withheld as a trade secret.

## SECTION 4: FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, after first 5 minutes, if present and easy to do. Continue rinsing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

**SKIN:** Take off immediately all contaminated clothing. Rinse skin with plenty of water. If skin irritation or rash occurs, seek medical advice. Wash contaminated clothing before reuse.



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**INGESTION:** DO NOT INDUCE VOMITING! Call a physician and/or transport to emergency facility immediately. Show this container or label.

**INHALATION:** Move person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**MOST IMPORTANT SYMPTOMS/  
EFFECTS, ACUTE & DELAYED:**

Aside from the information found under **SECTION 4: FIRST AID MEASURES, and INDICATION OF IMMEDIATE MEDICAL ATTENTION and SPECIAL TREATMENT NEEDED** (below), any additional important symptoms and effects are described in **SECTION 11: TOXICOLOGY INFORMATION**.

**INDICATION OF IMMEDIATE MEDICAL  
ATTENTION & SPECIAL TREATMENT NEEDED:**

**NOTES TO PHYSICIAN:** Maintain adequate ventilation and oxygenation of the patient. Because rapid absorption may occur through the lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Hemodialysis may be of benefit if substantial amounts have been ingested and the patient is showing signs of intoxication. Consider hemodialysis for patients with persistent hypotension or coma unresponsive to standard therapy (isopropanol levels >400 – 500 mg/dl). (Goldfrank 1998, King et al, 1970). No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Skin contact may aggravate preexisting dermatitis.

## SECTION 5: FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

**UNSUITABLE EXTINGUISHING MEDIA:** Do not use direct water stream. Straight or direct water streams may not be effective to extinguish fire.

**SPECIAL FIRE FIGHTING PROCEDURES  
FIRE-FIGHTING EQUIPMENT:**

Keep people away. Isolate fire and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Water may not be effective in extinguishing fire. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed.

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves).

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Container may vent and/or rupture due to fire. When product is stored in closed containers, a flammable atmosphere can develop. Electrically ground and bond all equipment. Flammable mixtures of this product are readily ignited even by static discharge. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Flammable mixtures may exist within the vapor space of containers at room temperature. Flammable concentrations of vapor can accumulate at temperatures above flash point; see **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**.

**HAZARDOUS DECOMPOSITION PRODUCTS:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide, Carbon dioxide.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**EMERGENCY PROCEDURES/  
PERSONAL PRECAUTIONS:**

Ventilate area of leak or spill. No smoking in area. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. Vapor explosion hazard. Keep out of sewers.

**LARGE SPILLS:** Warn public of downwind explosion hazard. Check area with combustible gas detector before reentering area. Ground and bond all containers and handling equipment. Use appropriate safety equipment. Refer to **SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**.

**PROTECTIVE EQUIPMENT:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting



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clothing (includes fire fighting helmet, coat, trousers, boots, and gloves).

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:** Contain spilled material if possible. Ground and bond all containers and handling equipment. Pump with explosion-proof equipment. Pump with explosion-proof equipment. If available, use foam to smother or suppress. Collect in suitable and properly labeled containers.

**ENVIRONMENTAL PRECAUTIONS:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

## SECTION 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING/STORAGE:

Keep away from heat, sparks and flame. Avoid contact with eyes. Avoid breathing vapor. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. No smoking, open flames or sources of ignition in handling and storage area. Use of non-sparking or explosion-proof equipment may be necessary.

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

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### CONTROL PARAMETERS:

EXPOSURE LIMITS ARE LISTED BELOW, IF THEY EXIST.

COMPONENT	REGULAITON	TYPE OF LISTING	VALUE/NOTATION
2-Butoxyethanol	ACGIH	TLV	20 ppm
Isopropanol	ACGIH	TWA	200 ppm

### APPROPRIATE ENGINEERING CONTROLS/VENTILATION:

Local exhaust ventilation.

### RESPIRATORY PROTECTION:

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. In confined or poorly ventilated areas, use an approved self-contained breathing apparatus or positive pressure-air line with auxiliary self-contained air supply.

### EYE/FACE PROTECTION:

Use chemical goggles.

### SKIN PROTECTION/PROTECTIVE GLOVES:

Wear gloves-chemically resistant.

### OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Wear clean, body-covering clothing. Suitable emergency eye wash facility should be available.

### WORK HYGIENIC PRACTICES:

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE:

#### PHYSICAL STATE:

Liquid.

#### COLOR:

Colorless

#### ODOR:

Lemon

#### ODOR THRESHOLD:

No test data available.

#### pH:

7-8

#### MELTING POINT/RANGE:

Not applicable to liquids.

#### FREEZING POINT:

N/D

#### BOILING POINT (760 mmHg):

200° F

#### FLASH POINT/METHOD USED:

125° F Tag Closed Cup ASTM D56



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EVAPORATION RATE:	N/D
FLAMMABILITY:	Flammable liquid.
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	
Explosive limit - lower:	N/D
Explosive limit - upper:	N/D
VAPOR PRESSURE (mmHg):	N/D
RELATIVE VAPOR DENSITY (AIR = 1):	N/D
RELATIVE DENSITY (WATER = 1):	0.98
SOLUBILITY IN WATER:	100%
PARTITION COEFFICIENT, n-OCTANOL/WATER:	N/D
AUTO-IGNITION TEMPERATURE:	N/D
DECOMPOSITION TEMPERATURE:	No test data available.
KINEMATIC VISCOSITY:	No test data available.
EXPLOSIVE PROPERTIES:	Not explosive
OXIDIZING PROPERTIES:	No

## SECTION 10: STABILITY AND REACTIVITY

**REACTIVITY:** No data available.

**CHEMICAL STABILITY:** Thermally stable at typical use temperatures.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Polymerization will not occur.

**CONDITIONS TO AVOID:** Exposure to elevated temperatures can cause product to decompose. Avoid static discharge.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Aldehydes. Halogenated organics. Halogens. Strong acids. Strong oxidizers.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Decomposition products depend upon temperature, air supply and the presence of other materials.

**HAZARDOUS POLYMERIZATION:** Will not occur.      **CONDITIONS TO AVOID (POLYMERIZATION):** See above.

## SECTION 11: TOXICOLOGICAL INFORMATION

*Toxicological information on this product or its components appear in this section when such data is available.*

### ACUTE TOXICITY

**2-Butoxyethanol:** Oral LD-50 – Rat + 1,300 mg/kg.  
Oral LD-50 – Guinea Pig = 1,400 mg/kg  
Dermal LD – 50 Rat > 2,000 mg/kg  
Dermal LD – 50 Guinea Pig > 2,000 mg/kg  
Inhalation Vapors LC50 – Rat – 3 hours > 4.9 mg/l  
Inhalation Vapors LC50 – Guinea Pig - 1 hour > 3.4 mg/l  
Skin corrosion/irritation – Rabbit = irritating to skin.  
Serious eye damage/eye irritation – Rabbit = irritating to the eyes.  
Respiratory or skin sensitization – Guinea pig = did not cause sensitization.

### ISOPROPANOL

#### **ACUTE ORAL TOXICITY:**

Low toxicity if swallowed.      LD50, Rat, 5,840 mg/kg OECD 401 or equivalent  
Lethal Dose, Humans, 100 ml Estimated.

#### **ACUTE DERMAL TOXICITY:**

Prolonged skin contact is unlikely to result in absorption of harmful amounts.  
LD50, Rabbit, > 12,800 mg/kg



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**NONYLPHENOL ETHOXYLATE:** LD50 Oral Rat 3310 mg/kg,  
LD50 Dermal Rabbit > 2000 mg/kg  
LD50, Rat, male and female, 6 Hour, vapor, >10000 ppm

**Skin corrosion/irritation:**

Prolonged exposure not likely to cause significant skin irritation.  
May cause drying and flaking of the skin.

**Serious eye damage/eye irritation:**

May cause pain disproportionate to the level of irritation to eye tissues.  
May cause moderate eye irritation.  
May cause moderate corneal injury.

**Specific target organ toxicity-  
Single exposure:**

May cause drowsiness and dizziness. Route of exposure: Ingestion.  
Target Organs: Central nervous system.

**Specific target organ toxicity-  
Repeated exposure:**

In animals, effects have been reported on the following organs: Kidney, Liver.

**Carcinogenicity:**

Does not cause cancer in lab mice.

**Aspiration Hazard:**

May be harmful if swallowed and enters airways.

## SECTION 12: ECOLOGICAL INFORMATION

### TOXICITY

#### ISOPROPANOL

**ACUTE TOXICITY TO FISH:** (LC50/EC50/EL50/LL50>100 mg/L in the most sensitive species tested).

LC50, Pimephales promelas (fathead minnow). Flow-through test, 96 Hour, 9,640 mg/l,  
OECD Test Guideline 203 or Equivalent.

**ACUTE TOXICITY TO AQUATIC INVERTEBRATES:** LC50, Daphnia magna (Water flea), static test, 24 Hour, > 1,000 mg/l,  
OECD Test Guideline 202 or Equivalent

**ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS:** NOEC, alga Scenedesmus sp., static test, 7 d, Growth inhibition  
(cell density reduction), 1,800 mg/l

ErC50, alga Scenedesmus sp., static test, 72 Hour,  
Growth rate inhibition, > 1,000 mg/l

#### CHRONIC AQUATIC TOXICITY

**CHRONIC TOXICITY TO AQUATIC INVERTEBRATES:** NOEC, Daphnia magna (Water flea), semi-static test, 21 d, 30 mg/l

**NONYLPHENOL ETHOXYLATE:** Acute LC50 Fish: 1 to 10 mg/l – 96 Hours

## SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.** All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations.

## SECTION 14: TRANSPORT INFORMATION

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



**SAFETY DATA SHEET**  
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CONTAINER SIZE(S): ALL  
 PROPER SHIPPING NAME: COMPOUND, CLEANING, LIQUID  
 HAZARD CLASS: N/A  
 ID NUMBER: NONE  
 PACKING GROUP: NONE  
 LABEL STATEMENT: NONE

**SECTION 15: REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS:**

**OSHA HAZARD COMMUNICATION STANDARD:**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**UNITED STATES TSCA INVENTORY (TSCA):**

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 TITLE III (Emergency Planning and Community Right-To-Know Act of 1986) Sections 311 and 312:**

Fire Hazard  
 Acute Health Hazard  
 Chronic Health Hazard

**SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 TITLE III (Emergency Planning and Community Right-To-Know Act of 1986) Sections 313:**

<u>COMPONENTS</u>	<u>CASRN</u>
ISOPROPANOL	67-63-0

**COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT OF 1980 (CERCLA) SECTION 103:**

This product contains the following substances which are subject to CERCLA Section 103 reporting requirements and which are listed in 40 CFR 302.4.

**SECTION 16: OTHER INFORMATION**

HMIS/NFPA Ratings: Health = 1  
 Flammability = 2  
 Reactivity = 0  
 Other = -  
 Protection = -

**LEGEND**

ACGIH	USA. ACGHI Threshold Limit Values (TLV)
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
STEL	Short-term exposure limit
TWA	8-hour, time-weighted average

REVISION DATE: 07/13/16

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

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

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