# SAFETY DATA SHEET

Issuing Date 15-Sep-2014 Revision Date 15-Sep-2014 **Revision Number** 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**GHS** product identifier

**Product Name** MARK 1

Other means of identification

UN1824 **UN-Number** 

**Synonyms** None

Recommended use of the chemical and restrictions on use

**Recommended Use** Degreaser

No information available Uses advised against

Supplier's details

**Supplier Address** MARK MFC. CORP. 295 Edwardia Dr. Greensboro, NC 27409 TEL: 336-294-1601

**Emergency telephone number** 

**Emergency Telephone** 

800-627-5634

Number

# 2. HAZARDS IDENTIFICATION

## Classification

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

Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1

## GHS Label elements, including precautionary statements

## **Emergency Overview**

Signal Word **Danger** 

Hazard Statements Causes severe skin burns and eye damage



Physical State Liquid. Appearance Purple Odor None

Page 1/9

Revision Date 15-Sep-2014 WPS-EMC-001 - MARK 1

#### **Precautionary Statements**

#### Prevention

- Do not breathe dust/fume/gas/mist/vapors/spray.
- · Wash face, hands and any exposed skin thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.

#### **General Advice**

• Immediately call a POISON CENTER or doctor/physician.

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.

#### Skin

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- · Wash contaminated clothing before reuse.

#### Inhalation

• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### Storage

· Store locked up.

#### Disposal

• Dispose of contents/container to an approved waste disposal plant.

### **Hazard Not Otherwise Classified (HNOC)**

Not applicable

#### Other information

May cause irritation of respiratory tract

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Nonoxynol-10	9016-45-9	5-20	*
2-Butoxyethanol	111-76-2	1-10	*
Sodium hydroxide	1310-73-2	1.5-2.0	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

#### Description of necessary first-aid measures

**General Advice** Immediate medical attention is required.

**Eye Contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician or Poison Control Center

immediately.

**Skin Contact** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. Call a POISON CENTER or doctor/ physician Remove and wash

contaminated clothing before re-use.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician or Poison Control Center immediately.

Ingestion Rinse mouth. Do NOT induce vomiting. Call a physician or Poison Control Center

immediately.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Burning.

Indication of immediate medical attention and special treatment needed, if necessary

**Notes to Physician**Treat symptomatically. Product is a corrosive material. Use of gastric lavage or emesis is

contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

## 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None

**Specific Hazards Arising from the Chemical** 

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. Contact with metals may evolve flammable hydrogen gas.

**Explosion Data** 

Sensitivity to Mechanical Impact Sensitivity to Static Discharge None.

**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. Corrosive hazard. Wear protective gloves/clothing and eye/face protection.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use

personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not get in eyes, on skin, or on clothing. Do not

breathe vapors or spray mist.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

**Environmental Precautions** 

**Environmental Precautions**Do not flush into surface water or sanitary sewer system. See Section 12 for additional

Ecological Information.

Methods and materials for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Dam up. Use personal protective equipment. Cover liquid spill with sand, earth or other

noncombustible absorbent material. Clean up promptly by sweeping or vacuum. Keep in

suitable and closed containers for disposal.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Handling Ensure adequate ventilation. Wear personal protective equipment. Do not get in eyes, on

skin, or on clothing. Do not breathe vapors or spray mist. Remove and wash contaminated

clothing before re-use. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled

containers. Keep out of the reach of children.

**Incompatible Products** Strong oxidizing agents. Strong bases.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Butoxyethanol	TWA: 20 ppm	TWA: 50 ppm	IDLH: 700 ppm
111-76-2		TWA: 240 mg/m <sup>3</sup>	TWA: 5 ppm
		(vacated) TWA: 25 ppm	TWA: 24 mg/m <sup>3</sup>
		(vacated) TWA: 120 mg/m <sup>3</sup>	
		(vacated) S*	
		S*	
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>
1310-73-2		(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>

Immediately Dangerous to Life or Health. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH:

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

**Appropriate engineering controls** 

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tightly fitting safety goggles. Face-shield.

Skin and Body Protection Wear protective gloves/clothing.

**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.

Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area

and clothing.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical State Liquid Appearance Purple

OdorNoneOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks/ - Method</u>

pH> 12None knownMelting Point/RangeNo data availableNone knownBoiling Point/Boiling Range234 °CNone knownFlash PointNo data availableNone known

Evaporation rateNo data availableNone knownFlammability (solid, gas)No data availableNone known

Flammability Limits in Air

upper flammability limitNo data availablelower flammability limitNo data availableVapor PressureNo data availableVapor PonsityNo data available

None known **Vapor Density** No data available None known **Specific Gravity** None known 1.3-1.4 Water Solubility Soluble in water. None known Solubility in other solvents Insoluble None known Partition coefficient: n-octanol/waterNo data available None known **Autoignition Temperature** No data available None known **Decomposition Temperature** No data available None known **Viscosity** water None known

Flammable Properties Not flammable

**Explosive Properties**No data available **Oxidizing Properties**No data available

Other information

VOC Content (%) No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

Contact with metals may evolve flammable hydrogen gas.

### **Hazardous Polymerization**

Hazardous polymerization does not occur.

#### Conditions to avoid

None known based on information supplied.

# **Incompatible materials**

Strong oxidizing agents. Strong bases.

## **Hazardous decomposition products**

Thermal decomposition can lead to release of irritating gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** 

**Inhalation** May cause irritation of respiratory tract.

**Eye Contact Skin Contact**Causes serious eye damage.
Causes severe skin burns.

**Ingestion** Ingestion causes burns of the upper digestive and respiratory tract.

\_\_\_\_\_

#### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nonoxynol-10	= 1310 mg/kg (Rat)	= 2 mL/kg (Rabbit)	-
2-Butoxyethanol	= 470 mg/kg (Rat)	= 400 mg/kg (Rabbit) = 2270 mg/kg (Rat)	= 2.21 mg/L (Rat) 4 h = 450 ppm (Rat) 4 h
Tribasic sodium phosphate dodecahydrate	= 7400 mg/kg (Rat)	-	-
Sodium hydroxide	-	1350 mg/kg (Rabbit)	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Causes burns

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

**Corrosivity** Causes severe skin burns and eye damage.

SensitizationNo information available.Mutagenic EffectsNo information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol	A3	Group 3		

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)
Group 3: Not Classifiable as to its Carcinogenicity to Humans
Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration Hazard
No information available.
No information available.
No information available.

#### Numerical measures of toxicity - Product

The following values are calculated based on chapter 3.1 of the GHS document: Not classified

## 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	Daphnia Magna (Water
			Microorganisms	Flea)
2-Butoxyethanol		LC50 96 h: = 1490 mg/L		EC50 24 h: 1698 - 1940
111-76-2		static (Lepomis macrochirus)		mg/L (Daphnia magna)
		LC50 96 h: = 2950 mg/L		EC50 48 h: > 1000 mg/L
		(Lepomis macrochirus)		(Daphnia magna)
Sodium hydroxide		LC50 96 h: = 45.4 mg/L		
1310-73-2		static (Oncorhynchus		
		mykiss)		

Persistence and Degradability No information available.

**Bioaccumulation** No information available.

Chemical Name	Log Pow
2-Butoxyethanol	0.81

## **Other Adverse Effects**

No information available.

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

**Contaminated Packaging** Do not re-use empty containers.

US EPA Waste Number D002

## 14. TRANSPORT INFORMATION

DOT

UN-Number UN1824

Proper shipping name Sodium hydroxide solution

Hazard Class 8
Packing Group ||

**Description** UN1824, Sodium hydroxide solution, 8, II

Emergency Response Guide 154

Number

**TDG** 

UN-Number UN1824

Proper Shipping Name Sodium hydroxide solution

Hazard Class 8
Packing Group | |

**Description** UN1824, Sodium hydroxide solution, 8, II

MEX

UN-Number UN1824

Proper Shipping Name Sodium hydroxide solution

Hazard Class 8
Packing Group | |

**Description** UN1824, Sodium hydroxide solution, 8, II

**ICAO** 

UN-Number UN1824

Proper shipping name Sodium hydroxide solution

Hazard Class 8
Packing Group ||

**Description** UN1824, Sodium hydroxide solution, 8, II

<u>IATA</u>

UN-Number UN1824

Proper Shipping Name Sodium hydroxide solution

Hazard Class 8
Packing Group II
ERG Code 8L

**Description** UN1824, Sodium hydroxide solution, 8, II

IMDG/IMO

UN-Number UN1824

Proper Shipping Name Sodium hydroxide solution

Hazard Class 8
Packing Group II
EmS No. F-A, S-B

**Description** UN1824, Sodium hydroxide solution, 8, II

RID

UN-Number UN1824

Proper Shipping Name Sodium hydroxide solution

Hazard Class 8
Packing Group II
Classification Code C5

**Description** UN1824, Sodium hydroxide solution, 8, II

<u>ADR</u>

UN-Number UN1824

Proper Shipping Name Sodium hydroxide solution

Hazard Class 8

Packing Group II
Classification Code C5
Tunnel Restriction Code (E)

**Description** UN1824, Sodium hydroxide solution, 8, II, (E)

**ADN** 

Proper Shipping Name Sodium hydroxide solution

Hazard Class 8
Packing Group II
Classification Code C5

**Description** UN1824, Sodium hydroxide solution, 8, II

Limited Quantity 1 L

## 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Not determined DSL Not determined

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) 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 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 HazardYesChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

#### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1000 lb			X

#### **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	Extremely Hazardous Substances RQs	RQ
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

### **U.S. State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
2-Butoxyethanol	X	X	X	Χ	X
Sodium hydroxide	Х	X	X		X

## U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# **16. OTHER INFORMATION**

NFPA Health Hazard 3 Flammability 0 Instability 1 Physical and Chemical

Hazards -

HMIS Health Hazard 3 Flammability 0 Physical Hazard 1 Personal Protection X

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

Issuing Date15-Sep-2014Revision Date15-Sep-2014Revision NoteInitial Release.

### **General Disclaimer**

The information provided on this SDS is correct to the 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.

**End of Safety Data Sheet** 

\_\_\_\_\_