Version: 3.0

Effective Date: Feb-07-2019 Previous Date: Feb-04-2019



# **SAFETY DATA SHEET METCLEAR\* MR2418**

#### 1. Identification

**Product identifier METCLEAR MR2418** 

Other means of identification None.

Recommended use Deposit control agent

**Recommended restrictions** None known.

## Company/undertaking identification

SUEZ WTS USA, Inc. 4636 Somerton Road Trevose, PA 19053

T 215 355 3300, F 215 953 5524

#### **Emergency telephone**

(800) 877 1940

# 2. Hazard(s) identification

**Physical hazards** Corrosive to metals Category 1 **Health hazards** Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1

**OSHA** defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye

damage.

**Precautionary statement** 

Prevention Keep only in original container. Do not breathe mist or vapor. Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all Response

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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/doctor/. Wash contaminated clothing before reuse. Absorb spillage to prevent material

Storage Store locked up. Store in corrosive resistant container with a resistant inner liner.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

Supplemental information

None known.

None.

Page: 1 / 8

#### 3. Composition/information on ingredients

#### **Mixtures**

Components	CAS#	Percent	
Sodium hydroxide	1310-73-2	0.1 - 1	

**Composition comments** 

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this SDS for our assessment of the potential hazards of this formulation.

#### 4. First-aid measures

Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately. Rinse immediately with plenty of water for at least 20 minutes.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**General information** 

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers / tanks with water spray.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

Material name: METCLEAR\* MR2418 Page: 2 / 8

#### 7. Handling and storage

Precautions for safe handling

Alkaline. Do not mix with acidic material. Contact with acids or as the product ages, pH may drop resulting in generation of hydrogen sulfide or carbon disulfide. Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure. Do not get this material on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in corrosive resistant container with a resistant inner liner. Avoid atmospheric exposure. Keep away from flames and sparks. Store away from acids. Avoid exposure to direct sunlight. Do not store in aluminum containers. Store in original tightly closed container. Keep only in the original container. Store in a cool, dry place out of direct sunlight. Store in accordance with local/regional/national/international regulation.

# 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
Sodium hydroxide (CAS	Ceiling	2 mg/m3	

1310-73-2) **Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Eye wash facilities and emergency shower must be available when handling this product. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eve/face protection

Splash proof chemical goggles.

Skin protection

Hand protection Chemical resistant gloves. The choice of an appropriate glove does not only depend on its material

but also on other quality features and is different from one producer to the other. Glove selection

must take into account any solvents and other hazards present.

Other Wear appropriate chemical resistant clothing. Chemical resistant gloves.

Respiratory protection

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS

WARRANT A RESPIRATOR'S USE. If engineering controls do not maintain airborne

concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be

worn.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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.

## 9. Physical and chemical properties

**Appearance** 

ColorOrangePhysical stateLiquidOdorSulfur

Odor threshold Not available.

pH (concentrated product) 12.6

Melting point/freezing point 32 °F (0 °C)

Material name: METCLEAR\* MR2418 Page: 3 / 8

Initial boiling point and boiling 210 °F (99 °C)

range

> 212 °F (> 100 °C) P-M(CC) Flash point

**Evaporation rate** < 1(Ether = 1) Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure 18 mm Hg

70 °F (21 °C) Vapor pressure temp. Vapor density < 1 (Air = 1)

Relative density 1.07

70 °F (21 °C) Relative density temperature

Solubility(ies)

Solubility (water) 100 %

Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Viscosity temperature 68 °F (20 °C)

Other information

37 °F (3 °C) Pour point 1.072 Specific gravity

VOC 0 % (Estimated)

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Oxides of carbon, nitrogen, and sulphur evolved in fire.

Contact with incompatible materials. None under normal conditions.

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system.

Skin contact Causes severe skin burns. Eye contact Causes serious eye damage. Ingestion Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

**Acute toxicity** 

Material name: METCLEAR\* MR2418 Page: 4 / 8

<ul><li>&gt; 5000 mg/kg, (Calculated according to GHS additivity formula)</li></ul>
> 5000 mg/kg, (Calculated according to GHS additivity formula)
Test Results

Dermal

LD50 Rabbit 1350 mg/kg

Oral

LD50 Rabbit > 500 mg/kg

\* Estimates for product may be based on additional component data not shown. Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

This product is not expected to cause respiratory sensitization. Respiratory sensitization This product is not expected to cause skin sensitization. Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

May be harmful if swallowed and enters airways. Based on available data, the classification **Aspiration hazard** 

criteria are not met.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

#### **Ecotoxicity**

Product		Species	Test Results		
METCLEAR MR2418 (CAS Mixture)					
	LC50	Fathead Minnow	390 mg/l, Acute Toxicity, 96 hour, (Estimated)		
	NOEL	Fathead Minnow	125 mg/l, Acute Toxicity, 96 hour, (Estimated)		
Aquatic					
Crustacea	LC50	Daphnia magna	480 mg/l, Acute Toxicity, 48 hour, (Estimated)		
	NOEL	Daphnia magna	124 mg/l, Acute Toxicity, 48 hour, (Estimated)		

Material name: METCLEAR\* MR2418

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potentialNo data available.Mobility in soilNo data available.Other adverse effectsNot available.

# 13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code**The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport information

DOT

UN number UN1760

**UN proper shipping name** Corrosive liquids, n.o.s. (Aziridine, Homopolymer, Reaction Products With Carbon Disulfide,

Sodium Salts, Sodium hydroxide)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III

Special precautions for user Not available.

ERG number 154

Some containers may be exempt from Dangerous Goods/Hazmat Transport Regulations, please check BOL for exact container

classification.

**IATA** 

UN number UN1760

**UN proper shipping name** Corrosive liquid, n.o.s. (Aziridine, Homopolymer, Reaction Products With Carbon Disulfide,

Sodium Salts, Sodium hydroxide)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III
Environmental hazards No.
ERG Code 154

Special precautions for user Not available.

**IMDG** 

UN number UN1760

**UN proper shipping name** CORROSIVE LIQUID, N.O.S. (Aziridine, Homopolymer, Reaction Products With Carbon

Disulfide, Sodium Salts, SODIUM HYDROXIDE)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III
Environmental hazards

Marine pollutant No. EmS F-A, S-B

Special precautions for user Not available.

Material name: METCLEAR\* MR2418 Page: 6 / 8



#### IATA; IMDG



# 15. Regulatory information

**US federal regulations** 

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

Listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Sodium hydroxide (CAS 1310-73-2)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Yes

Classified hazard

Corrosive to metal

categories Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

**Inventory status** 

Country(s) or region Inventory name

On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Material name: METCLEAR\* MR2418 Page: 7 / 8

#### **US state regulations**

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

No ingredient listed.

## 16. Other information, including date of preparation or last revision

Issue dateDec-10-2014Revision dateFeb-07-2019

Version # 3.0

NFPA ratings Health: 3
Flammability: 0
Instability: 0

NFPA ratings



List of abbreviations CAS: Chemical Abstract Service Registration Number

TSRN indicates a Trade Secret Registry Number is used in place of the CAS number.

ACGIH: American Conference of Governmental Industrial Hygienists

NOEL: No Observed Effect Level STEL: Short Term Exposure Limit LC50: Lethal Concentration, 50% TWA: Time Weighted Average BOD: Biochemical Oxygen Demand COD: Chemical Oxygen Demand TOC: Total Organic Carbon

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

LD50: Lethal Dose, 50%

NFPA: National Fire Protection Association

References: No data available

**Disclaimer** The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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

materials or in any process, unless specified in the text.

**Revision information** Physical & Chemical Properties: Multiple Properties

Prepared by This SDS has been prepared by SUEZ Regulatory Department (1-215-355-3300).

\* Trademark of SUEZ. May be registered in one or more countries.