

SECTION 1 - IDENTIFICATION

Product Identifier: Meras 1030R

Product Use: Closed Loop Treatment

Common Names: Sodium Hydroxide, Sodium Borate, Sodium Hydroxide

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24 Hr. Emergency #: ChemTrec (800) 424-9300

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the Substance or Mixture:

Skin Corrosion – Category 1A
 Acute Toxicity – Category 4
 Eye Irritation – Category 2A



Signal Word: DANGER

Hazard Statement(s):

H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H319: Causes serious eye irritation.

Precautionary Statements:

Prevention-

P260: Do not breathe dust/fume/gas/mist/vapors/spray.
 P262: Do not get in eyes, on skin, or on clothing.
 P264: Wash skin thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response-

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P301+315: IF SWALLOWED: Get immediate medical advice/attention.
 P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Storage-

P403+233: Store in a well ventilated place. Keep container tightly closed.
 P405: Store locked up.

Disposal-

P501: Dispose of contents/container to an approved waste disposal plant.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient(s)	CAS No.	Concentration (%)
Sodium Nitrite	7632-00-0	15%
Sodium Borate	1303-96-4	3%
Sodium Hydroxide	1310-73-2	1.5%

SECTION 4 - FIRST-AID MEASURES

Inhalation:	Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
Skin Contact:	Take off contaminated clothing and shoes immediately. Immediately wash with water and soap and rinse thoroughly.
Eye Contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.
Ingestion:	Do not induce vomiting; immediately call for medical help. Drink copious amounts of water and provide fresh air. Immediately call a doctor.
Most Important Symptoms And Effects, Both Acute And Delayed:	No data available.
Indication Of Any Immediate Medical Attention And Special Treatment Needed:	No data available.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable Extinguishing Equipment:	Water Spray Water Fog Carbon Dioxide Alcohol-Resistant Foam Dry Chemical
Special Hazards Arising From The Substance Or Mixture:	No data available.
Special Protective Equipment And Precautions For Firefighters:	Firefighters should wear air-purifying respirators. Use water spray to cool unopened containers. Use caution. See Section 7 for more information on safe handling. See Section 8 for more information on personal protection equipment. See Section 13 for disposal information.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, And Emergency Procedures:	Keep from contacting skin or eyes. Ensure adequate ventilation. Evacuate personnel to safe areas. Stay upwind of spilled material.
Environmental Precautions:	Prevent further release (leakage/spillage) if safe to do so. Do not allow product to enter drains. Do not allow to drain to environment.
Methods And Materials For Containments And Cleaning Up:	Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Spills may be diluted with water and treated with a neutralizing agent. Spill may be absorbed with pads, pillows, and/or snakes. Place contaminated material into suitable, closed containers for disposal. Dispose of contaminated material according to Section 13. Ensure adequate ventilation.
Reference To Other Sections:	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for information on proper disposal.

SECTION 7 - HANDLING AND STORAGE

Handling Precautions:	Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Use approved containers only.
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Keep containers closed when not in use.
 Do not expose containers to open flame, excessive heat, or direct sunlight.
 Do not puncture or drop containers.
 Handle with care and avoid spillage on the floor.
 Keep material out of reach of children.
 Keep material away from incompatible materials.
 Wash thoroughly after handling.
 Ensure adequate ventilation.

Storage Requirements: Keep container tightly closed.
 Store in a well-ventilated place.
 Do not store in direct sunlight.

Incompatible Materials: Store away from strong acids.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Component(s)	CAS No.	OSHA			NIOSH		ACGIH	
		PEL	Ceiling	STEL	REL	Ceiling	TLV	Ceiling
Sodium Borate	1303-96-4	N/A	N/A	N/A	1 mg/m ³	N/A	1 mg/m ³	N/A
Sodium Hydroxide	1310-73-2	2mg/m ³	2mg/m ³	N/A	2mg/m ³	2mg/m ³	2mg/m ³	2mg/m ³

Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).
 Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas.
 Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Personal Protective Equipment:

All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Type of protective equipment should be selected based on concentration amount and conditions of use of this material. Full-face vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds. Respiratory protection must comply with 29 CFR 1910.134.

Eye/Face-

- Goggles (chemical-resistant)

Skin/Body-

- Gloves (PVC, neoprene, or nitrile)

Respiratory-

- Air-purifying respirator if exposure limits are exceeded.

General Hygiene Considerations-

- Handle in accordance with good industrial hygiene and safety practice.
- Keep away from foodstuffs, beverages, and feed.
- Wash face, hands, and any exposed skin thoroughly after handling.
- Appropriately dispose of contaminated clothing; wash before re-use, if applicable.
- Avoid contact with eyes, skin, and clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Color: Amber

Odor: Sweetish

pH: >12

Melting/Freezing Point: No data available.

Initial Boiling Point and Boiling Range: 212°F

Flash Point: N/A

Evaporation Rate: No data available.

Flammability (Solid, Gas): No data available.

Upper/Lower Flammability or Explosive Limits: No data available.

Vapor Pressure (Mm Hg): 17 mm Hg (23 hPa)

Vapor Density: No data available.

Relative Density: 9.67 lbs/gal

Specific Gravity: 1.16

Solubility in Water: 100%

Partition Coefficient (N-Octanol/Water): No data available.

Auto Ignition Temperature: N/A

Decomposition Temperature: No data available.

Viscosity: No data available.

Volatiles (% By Weight): No data available.

Volatile Organic Compounds (VOC's): No data available.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: Not reactive under normal and ambient conditions
Chemical Stability: Stable under normal and ambient conditions.
Possibility of Hazardous Reactions: No possibility of hazardous reactions known.
Conditions to Avoid: Incompatibilities, flames, ignition sources.
Incompatible Materials: Strong acids.
Hazardous Decomposition Products: No data available.

SECTION 11 - TOXICOLOGICAL INFORMATION

Routes of Entry: Eyes, skin, ingestion, dermal absorption.

Acute Toxicity:
Sodium Nitrite
Oral Toxicity (LD₅₀)- 85 mg/kg (Rat)

Sodium Hydroxide
Oral Toxicity (LD₅₀)- 2,000 mg/kg (Rat)

Primary Eye Irritation: Strong caustic effect.
Primary Skin Irritation: Caustic effect.

Sensitization: May cause an allergic skin reaction (Guinea pig skin)

Carcinogenicity:
IARC- Group 3
ACGIH- No component of this product present at levels $\geq 0.1\%$ is identified as a carcinogen or potential carcinogen.
NTP- No component of this product present at levels $\geq 0.1\%$ is identified as a carcinogen or potential carcinogen.
OSHA- No component of this product present at levels $\geq 0.1\%$ is identified as a carcinogen or potential carcinogen.

Reproductive Toxicity: No data available.

Specific Target Organ Toxicity-Single Exposure: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Specific Target Organ Toxicity-Repeated Exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard: No data available.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:
Toxicity to Fish- No data available.

Toxicity to Daphnia and Other Aquatic Invertebrates- No data available.

Persistence and Degradability: No data available.

Bioaccumulation Potential: No data available.

Mobility in Soil: No data available.

Results of PBT and vPvB Assessment: Not conducted.

Other Adverse Effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recommendation: Hazardous wastes shall be managed responsibly.
 Contact a licensed professional waste disposal service to dispose of this material.
 Do not allow product to reach the sewage system.
 Disposal must comply with local, state, and federal regulations.
 Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of an NPDES permit.

Cleansing agent: Water should be used as a cleansing agent to rinse containers and/or soiled PPE.

SECTION 14 - TRANSPORTATION INFORMATION

US DOT

UN Number: 3266
 Class: 8
 Packing Group: III
 Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide)
 Marine Pollutant: No



IMDG

UN Number: 3266
 Class: 8
 Packing Group: III
 EMS-No.: F-A, S-B
 Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)



IATA

UN Number: 3266
 Class: 8
 Packing Group: III
 Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)



SECTION 15 - REGULATORY INFORMATION

EPA Registration No.:

Cal DPR Registration No.:

<u>Listed Hazardous Chemical</u>	<u>CAS No.</u>	<u>EPCRA EHS</u>		<u>CERCLA HS</u>	<u>CAA 112r</u>	<u>EPCRA 313</u>	<u>Prop 65 Listed</u>
		<u>RQ (lbs)</u>	<u>TPQ (lbs)</u>	<u>RQ (lbs)</u>	<u>TQ (lbs)</u>		
Sodium Hydroxide	1310-73-2			1,000			
Sodium Nitrite	7632-00-0			100		Yes	

Legend

EPCRA- Emergency Planning and Community Right-to-Know Act
 CERCLA- Comprehensive Environmental Response, Compensation and Liability Act
 CAA- Clean Air Act
 RQ- Release Quantity
 TPQ- Threshold Planning Quantity
 EPA- Environmental Protection Agency
 DPR- Department of Pesticide Registration

SECTION 16 - OTHER INFORMATION

NFPA



NFPA Rating Explanation Guide					
RATING NUMBER	HEALTH HAZARD	FLAMMABILITY HAZARD	INSTABILITY HAZARD	RATING SYMBOL	SPECIAL HAZARD
4	Can be lethal	Will vaporize and readily burn at normal temperatures	May explode at normal temperatures and pressures	ALK	Alkaline
3	Can cause serious or permanent injury	Can be ignited under almost all ambient temperatures	May explode at high temperature or shock	ACID	Acidic
2	Can cause temporary incapacitation or residual injury	Must be heated or high ambient temperature to burn	Violent chemical change at high temperatures or pressures	COR	Corrosive
1	Can cause significant irritation	Must be preheated before ignition can occur	Normally stable. High temperatures make unstable	OX	Oxidizing
0	No hazard	Will not burn	Stable	⚠	Reacts violently or explosively with water
				⚠OX	Reacts violently or explosively with water and oxidizing

HMIS III

1 HEALTH

1 FLAMMABILITY

0 REACTIVITY

C PERSONAL PROTECTION

PERSONAL PROTECTION INDEX					
A			G	+ +	
B	+		H	+ + +	
C	+ +		I	+ +	
D	+ +		J	+ + +	
E	+ +		K	+ +	
F	+ + +		X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions	
A		n		o	
	Safety Glasses		Splash Goggles		Face Shield & Eye Protection
				p	
				q	
				r	
				s	
t		u		w	
	Dust Respirator		Vapor Respirator		Dust & Vapor Respirator
				y	
				z	
					Additional Information

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