

SECTION 1 - IDENTIFICATION

Product Identifier: Meras 1015CL
Product Use: Closed Loop Treatment
Common Names: Name
 Meras Water Solutions
 4213 Technology Dr Suite A E3-725
 Modesto, CA 95356
 USA
 (866)899-9762
 info@meras.com

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

SECTION 2 - HAZARDS IDENTIFICATION
Classification of the Substance or Mixture:

Skin Irritation – Category 2
 Specific Target Organ Toxicity – Single Exposure, Category 3
 Serious Eye Damage – Category 1
 Chronic Aquatic Toxicity – Category 3



Signal Word: DANGER

Hazard Statement(s):

H315: Causes skin irritation.
 H335: May cause respiratory irritation.
 H318: Causes serious eye damage.
 H412: Harmful to aquatic life with long-lasting effects.

Precautionary Statements:
Prevention-

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.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response-

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+352: IF ON SKIN (or hair): Wash with plenty of soap and water.
 P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 P321: Specific treatment (see supplementary first aid instructions on this label).
 P333+313: If skin irritation or a rash occurs: Get medical advice/attention.
 P362: Take off contaminated clothing and wash before reuse.

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 (%)
Confidential Business Information has been removed without affecting the overall safety information on the Safety Data Sheet.		

SECTION 4 - FIRST-AID MEASURES

Inhalation:	If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist.
Skin Contact:	If this product contacts the skin, immediately flush the affected area with soap and water for at least fifteen (15) minutes. If the product penetrates the clothing, promptly remove the contaminated clothing or shoes, and flush the affected area as described. Seek medical attention if irritation persists.
Eye Contact:	If this product contacts the eyes, immediately flush eyes with plenty of clean running water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if worn. Seek medical attention if irritation persists.
Ingestion:	If this product is ingested, drink small amounts of water and seek medical attention promptly. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Most Important Symptoms And Effects, Both Acute And Delayed:	The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11.
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:	Combustion may lead to the release of oxides of carbon, oxides of nitrogen, phosphines. Dried residue can thermally decompose, giving off irritating and possibly toxic fumes.
Special Protective Equipment And Precautions For Firefighters:	Use water to cool containers exposed to a fire. Fire fighters should wear full protective equipment, and have self-contained breathing apparatus available. 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. Avoid breathing vapors, mist or gas. 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. Run off from fire control or dilution water may cause pollution. Keep out of drains, municipal sewers, open bodies of water, and water course.
Methods And Materials For Containments And Cleaning Up:	Safely stop source of spill. Clean up spills immediately. Restrict non-essential personnel from the area. Wear protective clothing, goggles and respirator if ventilation is not adequate. For small spills, dilute with large amounts of water and flush to sewer. For large spills, squeegee and collect the spillage or vacuum the spillage. Place collected spillage into containers for reuse or disposal. Dispose according to local, state or federal regulations at an approved chemical waste reprocessing facility.

Flush spill area with large amounts of water.

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 contact with eyes, skin, and/or clothing.
Avoid breathing vapors and mists.
Avoid prolonged or repeated contact.
Rinse container before disposal
Use approved containers only.
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.
The recommended storage temperature is 34°F to 129 °F.

Incompatible Materials: Strong alkali, oxidizing materials, and amines

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Component(s)	CAS No.	OSHA			NIOSH		ACGIH	
		<u>PEL</u>	<u>Ceiling</u>	<u>STEL</u>	<u>REL</u>	<u>Ceiling</u>	<u>TLV</u>	<u>Ceiling</u>
Morpholine	110-91-8	20 ppm 70 mg/m ³	N/A	30 ppm 105 mg/m ³	20 ppm 70 mg/m ³	N/A	20 ppm 71 mg/m ³	N/A

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-
•Safety glasses or goggles (chemical-resistant).

Skin/Body-
•Gloves (PVC, neoprene, or nitrile).

Respiratory-
•N/A

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.
•Do not smoke near the container.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid	Vapor Pressure (Mm Hg): 23.75 mm Hg 0.00
Color: Pink to red	Vapor Density: No information available.
Odor: Sweet	Relative Density: 8.51 lbs/gal
pH: 9	Specific Gravity: 1.02
Melting/Freezing Point: 32.0 °F	Solubility in Water: 100%
Initial Boiling Point and Boiling Range: 212.0 °F	Partition Coefficient (N-Octanol/Water): No information available.
Flash Point: N/A	Auto Ignition Temperature: No information available.
Evaporation Rate: No information available.	Decomposition Temperature: No information available.
Flammability (Solid, Gas): No information available.	Viscosity: No information available.
Upper/Lower Flammability or Explosive Limits: No information available.	Volatiles (% By Weight): No information available.
	Volatile Organic Compounds (VOC's): No information 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 alkali, oxidizing materials, and amines.
Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen, phosphines.

SECTION 11 - TOXICOLOGICAL INFORMATION

Routes of Entry:	Eyes, skin, ingestion, dermal absorption.
Acute Toxicity:	
Oral Toxicity (LD ₅₀)-	2,553 mg/kg (Rat)
Dermal Toxicity (LD ₅₀)-	1,403 mg/kg (Rabbit)
Inhalation Toxicity (LD ₅₀)-	No data available.
Primary Eye Irritation:	No data available.
Primary Skin Irritation:	No data available.
Sensitization:	No data available.
Carcinogenicity:	
IARC-	Group 3
ACGIH-	No component of this product present at levels >=0.1% is identified as a carcinogen or potential carcinogen.
NTP-	No component of this product present at levels >=0.1% is identified as a carcinogen or potential carcinogen.
OSHA-	No component of this product present at levels >= 0.1% is identified as a carcinogen or potential carcinogen.
Reproductive Toxicity:	No data available.
Specific Target Organ Toxicity-Single Exposure:	No data available.
Specific Target Organ Toxicity-Repeated Exposure:	No data available.
Aspiration Hazard:	No data available.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	
Toxicity to Fish-	LD ₅₀ - Onchorhynchus mykiss (Rainbow Trout): 2,195 mg/l (96 h)
Toxicity to Daphnia and Other Aquatic Invertebrates-	LC ₅₀ - Daphnia magna (Water Flea): 22,000 mg/l (48 h)

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. Harmful to aquatic life.

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 will 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: 3082
Class: 9
Packing Group: III
Proper Shipping Name: Environmentally Hazardous Substance, liquid, (n,n-diethylhydroxylamine)
Marine Pollutant: Yes



IMDG

UN Number: 3082
Class: 9
Packing Group: III
EMS-No.: F-A, S-F
Proper Shipping Name: Environmentally Hazardous Substance, liquid, (n,n-diethylhydroxylamine)



IATA

UN Number: 3082
Class: 9
Packing Group: III
Proper Shipping Name: Environmentally Hazardous Substance, liquid, (n,n-diethylhydroxylamine)



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>		
None							

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

2 HEALTH

0 FLAMMABILITY

0 REACTIVITY

B 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	p
Safety Glasses	Splash Goggles	Face Shield & Eye Protection	Gloves
q	r	s	
Boots	Synthetic Apron	Full Suit	
t	u	w	y
Dust Respirator	Vapor Respirator	Dust & Vapor Respirator	Full Face Respirator
			z
			Additional Information
			Additional Information

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