

SECTION 1 - IDENTIFICATION

Product Identifier: Meras 1037P

Product Use: Closed Loop Treatment

Common Names: Sodium Nitrite

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

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the Substance or Mixture:

Skin Irritation – Category 2
Acute Toxicity – Category 3
Eye Irritation – Category 2A
Reproductive Toxicity – Category 1B
Oxidizing Solids – Category 2



Signal Word: DANGER

Hazard Statement(s):

H272: May intensify fire; oxidizer.
H301: Toxic if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H331: Toxic if inhaled.
H360: May damage fertility or the unborn child.

Precautionary Statements:

Prevention-

P221: Take any precaution to avoid mixing with combustibles.
P262: Do not get in eyes, on skin, or on clothing.
P263: Avoid contact during pregnancy/while nursing.
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.
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	95%

Benzotriazole	95-14-7	1.5%
Tolytriazole	29385-43-1	1%
Boric Acid	1330-43-4	1%

SECTION 4 - FIRST-AID MEASURES

Inhalation:	In case of unconsciousness place patient stably in side position for transportation.
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:	Decomposition products may include the following materials: -nitrogen oxides -metal oxide/oxides -carbon oxides -toxic fumes
Special Protective Equipment And Precautions For Firefighters:	Firefighters should wear a self-contained breathing apparatus (SCBA). 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:	Spills should be swept up. Dispose of broom and dust pan after rinsing. Rinse off affected area with plenty of water. 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 contact with eyes, skin, or clothing.
Use approved containers only.
Keep containers closed when not in use.
Keep ignition sources away.
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:

Reactive or incompatible with the following materials: oxidizing materials, reducing materials, metals, acids and moisture.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

<u>Component(s)</u>	<u>CAS No.</u>	<u>PEL</u>	<u>OSHA</u> <u>Ceiling</u>	<u>STEL</u>	<u>NIOSH</u>		<u>ACGIH</u>	
					<u>REL</u>	<u>Ceiling</u>	<u>TLV</u>	<u>Ceiling</u>
Boric Acid	1330-43-4	N/A	N/A	N/A	1 mg/m ³	N/A	2 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-

- Goggles (chemical-resistant)

Skin/Body-

- Gloves (PVC, neoprene, or nitrile)

Respiratory-

- Air-purifying respirator

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: No data available

Vapor Pressure (Mm Hg): No data available

Vapor Density: No data available.

Relative Density: 2.168 g/cm³

pH: No data available
Melting/Freezing Point: No data available.
Initial Boiling Point and Boiling Range: No data available
Flash Point: No data available
Evaporation Rate: No data available.
Flammability (Solid, Gas): No data available.
Upper/Lower Flammability or Explosive Limits: No data available.

Specific Gravity: No data available
Solubility in Water: No data available.
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: Reactive or incompatible with the following materials: oxidizing materials, reducing materials, metals, acids and moisture.
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)
 Inhalation (LC₅₀)- 5.5 mg/m³ (Rat)

Boric Acid
 Oral Toxicity (LD₅₀)- 1,200 mg/kg (Rat)

Primary Eye Irritation:
 Sodium Nitrite- Mild irritant (Rabbit)
 Benzotriazole- Severe irritant (Rabbit)

Primary Skin Irritation: No data available.

Sensitization: No data available.

Carcinogenicity:
 IARC- No data available.
 ACGIH- A4 (Boric Acid)
 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: Contains material which may cause damage to the following organs: blood, kidneys, lungs, the reproductive system, mucous membranes, gastrointestinal tract, cardiovascular system, upper respiratory tract, skin, eyes, central nervous system (CNS), nose/sinuses.

Aspiration Hazard: No data available.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:
 Toxicity to Fish-
 (Sodium Nitrite) LC₅₀- 0.54 mg/l (96 H)
 (Boric Acid) LC₅₀- 74 mg/l (96 H)

Toxicity to Daphnia and Other Aquatic Invertebrates- (Sodium Nitrite)

EC₅₀- >100 mg/l (72 H); Algae
EC₅₀- 15.4 mg/l (48 H); Daphnia
LC₅₀- 86 mg/l (48 H); Daphnia

(Boric Acid)

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:

Not readily biodegradable. Water polluting material. May be harmful to the environment if released in large quantities. This material is very toxic 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: 1500
Class: 5.1 (6.1)
Packing Group: III
Proper Shipping Name: Sodium Nitrite, Marine Pollutant
Marine Pollutant: Yes



IMDG

UN Number: 1500
Class: 5.1 (6.1)
Packing Group: III
EMS-No.: F-A, S-Q
Proper Shipping Name: Sodium Nitrite, Marine Pollutant



IATA

UN Number: 1500
Class: 5.1 (6.1)
Packing Group: III
Proper Shipping Name: Sodium Nitrite, Marine Pollutant



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 Nitrite	7632-00-0			100		Yes	

Meras 1037P

Safety Data Sheet

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	☢	Radioactive
				☒	Reacts violently or explosively with water
				☒OX	Reacts violently or explosively with water and oxidizing

HMIS III

3 HEALTH

0 FLAMMABILITY

1 REACTIVITY

J 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	q	r
Safety Glasses	Splash Goggles	Face Shield & Eye Protection	Gloves	Boots	Synthetic Apron
t	u	w	y	z	Full Suit
Dust Respirator	Vapor Respirator	Dust & Vapor Respirator	Full Face Respirator	Airline Hood or Mask	Additional Information

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