

Safety Data Sheet

Part Number 326616

Section 1. Substance Identity and Company Contact Information

Product Name	Base Reagent	Product Part Number(s)	A001103
Trade Name	Base Reagent	Unit Size	1,000 mL
Company	OI Analytical, P.O. Box 9010, College Station, TX 77842-9010 Phone: (979) 690-1711, Fax: (979) 690-0440		

Emergency No. 1-800-424-9300 (Chemtrec). Use only in the event of chemical emergencies involving spills, leaks, fire, exposure, or accidents involving chemicals.

Section 2. Hazards Identification

Pictogram(s)



Signal Word	Warning	
Hazard Statement(s)	Causes skin irritation. Causes serious eye irritation.	
Precautionary Statement(s)	Wash thoroughly after handling. Wear protective gloves. Wear eye/face protection.	
Emergency Overview	Skin corrosion/irritation (Category 2) Serious eye damage/eye irritation (Category 2)	
Target Organ(s)	Skin	
Potential Health Effects	Eye:	Causes irritation
	Skin:	Causes irritation
	Ingestion:	May cause burns of the mouth, throat, and stomach.
	Inhalation:	Causes irritation
Chronic Effects/Carcinogenicity	IARC:	No data available
	NTP:	No data available
	OSHA:	No data available
Teratology (Birth Defects) Information	No data available	
Reproductive Information	No data available	
NFPA Ratings	Health:	1
	Flammability:	0
	Reactivity:	0
	Special Notice Key:	No data available
HMIS Rating	Health:	1
	Flammability:	0
	Reactivity:	0
	Protective Equipment:	Wear appropriate PPE

Section 3. Chemical Composition and Data on Components

Ingredient	CAS No.	Percent	Hazard Data	
			ACGIH TLV	OSHA PEL
Sodium hydroxide	1310-73-2	0.4	No data available	No data available
Water	7732-18-5	99.6	No data available	No data available

Section 4. First Aid Measures

General Advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Wash contaminated clothing before reuse. Most important symptoms are irritation of eyes and mucous membranes. Irritant effects.
If Inhaled	Move immediately to fresh air. If not breathing, give artificial respiration.
In Case of Skin Contact	Remove contaminated clothing. Wash off with soap and plenty of water. Get medical attention.
In Case of Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
If Swallowed	DO NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Rinse mouth thoroughly with water and give large amounts of milk or water, if person is conscious. Seek medical attention.
Indication of Any Immediate Medical Attention and Special Treatment Needed	Provide general supportive measures and treat symptomatically.

Section 5. Fire-fighting Measures

General Information	No data available
Suitable Extinguishing Media	Use extinguishing agent suitable for type of surrounding fire. Water fog, foam, dry chemical powder, or carbon dioxide (CO ₂).
Special Hazards Arising from the Substance or mixture	None known.
Advice for Firefighters	No data available
Flash Point	No data available
Autoignition Temperature	None known.
Further Information	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep out of low areas. Ensure adequate ventilation. Wear appropriate personal protective equipment.
Environmental Precautions	Avoid discharge into drains, water courses, or onto the ground. Prevent further leakage or spillage if safe to do so. Do not contaminate water.
Methods and Materials for Containment and Cleaning	Should not be released into the environment. This product is miscible in water. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Neutralize with acid. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery. Clean surface thoroughly to remove residual contamination.
Reference to Other Sections	Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS. For disposal, see Section 13.

Section 7. Handling and Storage

Precautions for Safe Handling	Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Wash hands thoroughly after handling. Avoid release to the environment.
Conditions for Safe Storage, Including any Incompatibilities	Keep container tightly closed. Keep out of the reach of children. Store in a cool, dry place out of direct sunlight.
Specific End Use(s)	No data available

Section 8. Exposure Controls and Personal Protection

Components with Workplace Control Parameters	Use only in a chemical fume hood.
Appropriate Engineering Controls	Good general ventilation (typically 10 air changes per hour) 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. Provide eye-wash station.
Eye/Face Protection	Wear chemical goggles.
Skin Protection	Wear protective gloves.
Body Protection	Wear suitable protective clothing. Wear protective gloves.
Respiratory Protection	In case of insufficient ventilation, wear suitable respiratory equipment. Thermal hazards not available. General hygiene considerations. Avoid contact with eyes. Avoid contact with skin. Wash hands before breaks.
Control of Environmental Exposure	No data available

Section 9. Physical and Chemical Properties

Appearance	Form: Clear liquid; Color: Colorless
Odor	Odorless
Odor Threshold	No data available
pH	13
Melting Point/Freezing Point	32.0 °F (0 °C) estimated
Initial Boiling Point and Boiling Range	212.0 °F (100.0 °C)
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
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	No data available
Water Solubility	Completely miscible
Partition Coefficient : n-octanol/water	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available
Other Safety Information	No data available

Section 10. Stability and Reactivity

Reactivity	No data available
Chemical Stability	Material is stable under normal conditions.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur.
Conditions to Avoid	Heat
Incompatible Materials	Acids, organic halides, metals such as aluminum, tin, and zinc.

Section 11. Toxicological Information

Routes of Exposure	<i>On the skin:</i> May be irritating to the skin. <i>On the eye:</i> Causes serious eye irritation. <i>Inhalation:</i> Due to lack of data the classification is not possible. <i>Ingestion:</i> Based on available data, the classification criteria are not met.
Respiratory or Skin Sensitization	Irritating to the skin
Signs and Symptoms of Overexposure	Irritant effects.
Toxicity Data	<i>Oral Rat</i> 10000 mg/kg, estimated

Section 12. Ecological Information

General Notes	This material is moderately toxic to Daphnia (48-hr LC50 1.8 mg/L), trout (96-hr LC50 0.97 mg/L), and bobwhite quail (oral LD50 342 mg/kg and inhalation 4-hr LC50 478 ppm). It is slightly toxic to zebra fish (96-hr LC50 5 mg/L) and algae (72-hr EC50 14-26 mg/L), and practically non-toxic to earthworms (14d LC50 32 mg/kg soil, NOEC=22 mg/kg soil).
----------------------	--

Section 13. Disposal Considerations

Product	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Neutralize and flush solution into sewer connected to wastewater treatment system in compliance with applicable laws and regulations. Dispose of contents/container in accordance with local/regional/national/international regulations. Local disposal regulations Not available. Hazardous waste code D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel] 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.

Section 14. Transport Information

DOT Shipping Name	Not regulated as a hazardous material by DOT.
UN Proper Shipping Name	No data available
DOT Hazard Class	No data available
Packing Group	No data available
UN Number	No data available
Hazardous Ingredients	No data available
DOT Label	No data available
DOT Placard	No data available

IMDG Shipping Name	Not regulated as a dangerous good.
UN Number	No information available
Class	No information available
Packing Group	No information available

IATA Shipping Name	Not regulated as a dangerous good.
Technical Shipping Name	No information available
IATA Hazard Class	No information available
UN Number	No information available
Hazardous Ingredients	No information available
IATA Label	No information available
IATA Placard	No data available

Section 15. Regulatory Information

OSHA Status	Not on regulatory list.
TSCA Status	Not regulated.
CERCLA Reportable Quantity	Sodium Hydroxide (CAS 1310-73-2) Listed
SARA Title III	No
RCRA Status	No data available
California Proposition 65	Not listed.
Chemical Weapons Convention	No data available
TSCA 12 (b)	Not regulated.
SARA 311/312	Acute: Yes
	Chronic: No
	Fire: Yes
	Pressure: No
	Reactivity: No
Australian Hazchem Code	No data available
Poison Schedule	No data available
WHMIS	This SDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR.

Section 16. Other Information

Date Prepared: April 14, 2004

Revised: May 14, 2015

For R&D use only. Not for drug, household, or other uses.

Judgements as to the suitability of information herein for the purchaser's purpose are necessarily the purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, OI Analytical extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to the purchaser's intended purpose for consequences of its use.

© 2015 OI Analytical. License granted to make unlimited paper copies for internal use only.

OI Analytical, WTW, Global Water, and SI Analytics are trademarks of Xylem Inc. or one of its subsidiaries.



151 Graham Road
PO Box 9010
College Station, Texas
77842-9010
(979) 690-1711
(800) 653-1711 USA/Canada
FAX (979) 690-0440
www.oico.com
E-mail: OI-Mail@Xyleminc.com