

1. Identification

Product identifier Rinse Agent

Other means of identification
SDS number #8

Recommended use For industrial and manufacturing use only.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Bioclean System and Supply, Inc
Address 10621 Nassau Street NE
Blaine, MN 55449
United States

Main Telephone Number 763-231-4405
Website www.biocleansystems.com
E-mail info@biocleansystems.com

Emergency #: INFOTRAC 1-800-535-5053
Emergency #: INFOTRAC 1-352-323-3500 (call collect)

2. Hazard(s) identification

Physical hazards Corrosive to Metals Category 1

Health hazards Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity, repeated exposure Category 2, Inhalation

Environmental hazards Not classified.

OSHA defined hazards

Label elements



Signal word Warning

Hazard statement May be corrosive to metals. Causes serious eye irritation. Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statement

Prevention Keep only in original container. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear eye protection/face protection. Wear protective gloves.

Response If on skin: Wash with plenty of water. 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. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage Store away from incompatible materials. Store in a well-ventilated place. Keep container tightly closed. Store in accordance with local/regional/national/international regulations.

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

Hazard(s) not otherwise classified (HNOC) None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Ethylenediaminetetraacetic acid,tetrasodium salt	64-02-8	30 - 50
Sodium hydroxide	1310-73-2	1 - 5
Nitrilotriacetic acid, trisodium salt	5064-31-3	0.1 - 1

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult a physician after significant exposure.

Skin contact

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation persists, call a physician. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth and drink afterwards plenty of water. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and surrounding environment.

Specific hazards arising from the chemical

Water spray may be ineffective unless used by experienced firefighters. Do not allow run-off from fire fighting to enter drains or water courses.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk.

Further Information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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. Avoid breathing 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. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

Environmental precautions Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

7. Handling and storage

Precautions for safe handling For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities Prevent unauthorized access.
Keep container tightly closed in a dry and well-ventilated place.
Store in closed dark containers made of anti-corrosive material.

8. Exposure controls/personal protection

Occupational exposure limits This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.

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

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. Eye wash facilities and emergency shower must be available when handling this product. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Avoid contact with eyes. Eye wash fountain is recommended.

Skin/Hand protection Wear appropriate protective suit and chemical resistant gloves.

Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

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. When using product, do not eat, drink, or smoke. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Liquid.

Color Colourless to light yellow.

Odor Slightly ammonia like.

Odor threshold Not available.

pH 11 - 12

Melting point/freezing point Not available.

Initial boiling point and boiling range 105 - 110 Celcius.

Flash point Not flammable.

Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
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	Similar to water
Vapor density	Similar to water.
Relative density	1.15 - 1.38
Solubility(ies)	
Solubility (water)	Completely miscible.
Partition coefficient (n-octanol/water)	log Pow: < 0
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	ca. 19mPa.s at 20 Celcius (Dynamic), 13.80 - 16.50 mm2/s at 20 Celcius (Kinematic).
Other information	
Explosive properties	Not explosive.
Corrosive to metals	Corrosive to metals.
Oxidizing	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability	Material is stable under normal conditions.
Possibility of Hazardous Reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	None known.
Materials to avoid	Aluminum, Zinc, Copper Alloys, Copper, Nickel.
Hazardous decomposition products	Nitrogen oxides(NOx). Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity	Oral estimate: 4,506 mg/kg Inhalation estimate: 3-8 mg/l Exposure time: 4hr Atmosphere: dust/mist
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

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

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

IARC Monographs. Overall Evaluation of Carcinogenicity

Group 2B: Possibly carcinogenic to humans. Nitritotriacetic acid, trisodium salt 5064-31-3

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

US National Toxicology Program (NTP) Report on Carcinogens

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

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 Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT Not regulated as dangerous goods.

IATA UN3267, Corrosive liquid, basic, organic, n.o.s.(Ethylenediaminetetraacetic acid, tetrasodium salt), 8, III
Packing Instruction (cargo):856 Packing Instruction (passenger): 852 Packing Instruction (LQ): Y841

IMDG UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(Ethylenediaminetetraacetic acid, tetrasodium salt), 8, III

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

15. Regulatory information

US federal regulations

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

OSHA Hazards: Toxic by inhalation., Harmful by ingestion., Corrosive to skin, Corrosive to eyes, Corrosive to respiratory system.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4) Reportable Quantity

Sodium hydroxide CAS-No. 1310-73-2 (RQ) 1000 lbs.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazardous chemical Acute Health Hazard
Chronic Health Hazard

SARA313(TRIreporting)

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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.

Clean Water Act This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307 The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Sodium hydroxide 1310-73-2

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Sodium hydroxide 1310-73-2

US State Regulations	Massachusetts Right To Know: Nitrotriactic acid, trisodium salt	5064-31-3	0.1 - 1 %
	Pennsylvania Right To Know	Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8 30 - 50 %
		Sodium hydroxide	1310-73-2 0.1 - 1 %
	New Jersey Right To Know	Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8 30 - 50 %
	California Prop. 65	WARNING! This product contains a chemical known in the State of California to cause cancer.	

Nitrotriactic acid, trisodium salt 5064-31-3

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

Issue date	05-01-2015
Revision date	5-06-2015, 5-1-2017
Version #	02
HMIS® ratings	Health: 3 Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 0 Instability: 0

Disclaimer

Bioclean Systems Inc cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet has been obtained from sources believed to be reliable.

Bioclean Systems provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration, and investigation. You should satisfy yourself that you have all current data relevant to your particular use. Bioclean Systems Inc., knows of no medical condition, other than those noted on this Safety Data Sheet, which are generally recognized as being aggravated by exposure to this product.

Revision information

This document has undergone significant changes and should be viewed in its entirety.