

SAFETY DATA SHEET

Preparation Date: 2/22/2016

Revision Date: 2/22/2016

Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: E1048
Product Name: ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT, SOLUTION

Other means of identification

Synonyms: No information available
CAS #: Mixture
RTECS # Not available
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
 14422 South San Pedro St.
 Gardena, CA 90248
 (310) 516-8000

Order Online At: <https://www.spectrumchemical.com>

Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2

Label elements

Danger**Hazard statements**

Causes severe skin burns and eye damage
Suspected of causing cancer

**Hazards not otherwise classified (HNOC)**

Not Applicable

Other hazards

Toxic to aquatic life with long lasting effects
Toxic to aquatic life

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Water 7732-18-5	7732-18-5	56
Ethylenediaminetetraacetic Acid Tetrasodium Salt 64-02-8	64-02-8	37-39
Sodium hydroxyacetate 2836-32-0	2836-32-0	3
Nitrilotriacetic Acid Trisodium Salt 5064-31-3	5064-31-3	1
Sodium Hydroxide 1310-73-2	1310-73-2	<1.6

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4. FIRST AID MEASURES

First aid measures

General Advice:

Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

Skin Contact:

Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician immediately.

Eye Contact:

Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

Inhalation:

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. Call a physician immediately.

Ingestion:

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms

Severe skin and eye irritation or burns. Causes digestive (gastrointestinal) tract irritation. May cause gastrointestinal (digestive) tract burns. Ingestion may cause vomiting and nausea. It may affect the kidneys. May affect the liver.

Indication of any immediate medical attention and special treatment needed

Notes to Physician:

Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media:

The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

Unsuitable Extinguishing Media:

No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products:

Sodium oxides

Specific hazards:

No information available.

Special Protective Actions for Firefighters

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Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).

Methods for cleaning up Neutralize with Sodium carbonate or Sodium bicarbonate. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Use only in area provided with appropriate exhaust ventilation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store in a segregated and approved area. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents. Nitrates. Acids. Metals. aluminum alloys. Copper. Copper alloys. Nickel.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
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Water 7732-18-5	None	None	None	None
Ethylenediaminetetraacetic Acid Tetrasodium Salt 64-02-8	None	None	None	None
Sodium hydroxyacetate 2836-32-0	None	None	None	None
Nitrilotriacetic Acid Trisodium Salt 5064-31-3	None	None	None	None
Sodium Hydroxide 1310-73-2	2 mg/m ³ TWA	2 mg/m ³ Ceiling	2 mg/m ³ Ceiling	None

Canada

Components	Alberta	British Columbia	Ontario	Quebec
Water 7732-18-5	None	None	None	None
Ethylenediaminetetraacetic Acid Tetrasodium Salt 64-02-8	None	None	None	None
Sodium hydroxyacetate 2836-32-0	None	None	None	None
Nitrilotriacetic Acid Trisodium Salt 5064-31-3	None	None	None	None
Sodium Hydroxide 1310-73-2	2 mg/m ³ Ceiling	2 mg/m ³ Ceiling	2 mg/m ³ Ceiling	2 mg/m ³ Ceiling

Australia and Mexico

Components	Australia	Mexico
Water 7732-18-5	None	None
Ethylenediaminetetraacetic Acid Tetrasodium Salt 64-02-8	None	None
Sodium hydroxyacetate 2836-32-0	None	None
Nitrilotriacetic Acid Trisodium Salt 5064-31-3	None	None
Sodium Hydroxide 1310-73-2	None	2 mg/m ³ Ceiling

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

- Eye protection:** Face-shield or Goggles
- Skin and body protection:** Chemical resistant apron. Long sleeved clothing. Gloves. Boots.
- Respiratory protection:** Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent. .

Hygiene measures:

Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.	Appearance: No information available	Color: Colorless to pale yellow.
Odor: No information available	Taste No information available	Formula: No information available
Molecular/Formula weight: No information available	Flammability: No information available	Flash point (°C): No data available
Flashpoint (°C/°F): No information available.	Flash Point Tested according to: Not available	Autoignition Temperature (°C/°F): No information available
Lower Explosion Limit (%): No information available	Upper Explosion Limit (%): No information available	pH: 11-12
Melting point/range(°C/°F): -25 °C/-13 °F	Boiling point/range(°C/°F): 106 °C/222.8 °F	Decomposition temperature(°C/°F): No information available
Bulk density: No information available	Density (g/cm3): No information available	Specific gravity: 1.290-1.325
Vapor pressure @ 20°C (kPa): No information available	Evaporation rate: No information available	Vapor density: No information available
VOC content (g/L): No information available	Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): No information available
Viscosity: No information available	Miscibility: No information available	Solubility: Easily soluble in water

10. STABILITY AND REACTIVITY

Reactivity

Contact with metals may evolve flammable hydrogen gas

Chemical stability

Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Incompatible materials.

Incompatible Materials: Oxidizing agents. Nitrates. Acids. Metals. aluminum alloys. Copper. Copper alloys. Nickel.

Hazardous decomposition products: No information available

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation. Eyes. Skin.

Acute Toxicity

Component Information

Water - 7732-18-5

LD50/oral/rat = > 90 mL/kg Oral LD50 Rat
LD50/oral/mouse = No information available
LD50/dermal/rat = No information available
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Ethylenediaminetetraacetic Acid Tetrasodium Salt - 64-02-8

LD50/oral/rat = 1658 mg/kg Oral LD50 Rat
LD50/oral/mouse = No information available
LD50/dermal/rat = No information available
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Sodium hydroxyacetate - 2836-32-0

LD50/oral/rat = 7100 mg/kg
LD50/oral/mouse = 6700 mg/kg
LD50/dermal/rat = No information available
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Nitriiotriacetic Acid Trisodium Salt - 5064-31-3

LD50/oral/rat = 920 mg/kg Oral LD50 Rat (LOLI; EU Commission IUCLID dataset)
1100 mg/kg (RTECS)
LD50/oral/mouse = 681 mg/kg
LD50/dermal/rat = No information available
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = >5 mg/L Inhalation LC50 Rat 4 h
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = 750 mg/kg Oral LD50 Monkey
>5000 mg/kg Oral LD50 Dog

Sodium Hydroxide - 1310-73-2

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LD50/oral/rat = No information available
LD50/oral/mouse = No information available
LD50/dermal/rat = No information available
LD50/dermal/rabbit = 1350 mg/kg Dermal LD50Rabbit
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = 500 mg/kg Oral LDL(Lowest Lethal Dose) Rabbit

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes severe irritation and burns.

Eye Contact: Causes severe irritation and burns. May cause corneal injury. May cause permanent injury.

Inhalation Inhalation of mist or vapors may cause respiratory tract irritation.

Ingestion Causes digestive (gastrointestinal) tract irritation. Corrosive to the mouth, throat, and stomach. Causes digestive or gastrointestinal tract burns. Ingestion may cause nausea, vomiting. It may affect the kidneys and liver.

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged or repeated ingestion may affect the kidneys
Prolonged or repeated ingestion may affect the liver
Prolonged or repeated ingestion may affect the blood (changes in platelet count)

Sensitization: No information available

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Mutagenic Effects: For Sodium Hydroxide:
Cytogenic analysis - hamster ovary
For EDTA Tetrasodium Salt:
Cytogenic analysis (hamster lung)

Carcinogenic effects: Suspected of causing cancer. Possibly carcinogenic to humans.

Components	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Water	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Ethylenediaminetetraacetic Acid Tetrasodium Salt	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Sodium hydroxyacetate	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Nitritotriacetic Acid Trisodium Salt	Group 2B - Monograph 73 [1999] Monograph 48 [1990] evaluated as a group	Not listed	Not listed	Present	Not listed	Not listed
Sodium Hydroxide	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*IARC (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans*

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available
STOT - repeated exposure No information available
Target Organs: No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Ethylenediaminetetraacetic Acid Tetrasodium Salt - 64-02-8

Freshwater Algae Data: 1.01 mg/L EC50 *Desmodesmus subspicatus* 72 h

Freshwater Fish Species Data: 41 mg/L LC50 *Lepomis macrochirus* 96 h static 1
59.8 mg/L LC50 *Pimephales promelas* 96 h static 1

Water Flea Data: 610 mg/L EC50 *Daphnia magna* 24 h

Nitritotriacetic Acid Trisodium Salt - 5064-31-3

Ethylenediaminetetraacetic Acid Tetrasodium Salt - 64-02-8

Freshwater Fish Species Data: 175 - 225 mg/L LC50 *Lepomis macrochirus* 96 h static 1
560 - 1000 mg/L LC50 *Oryzias latipes* 96 h 1
560 - 1000 mg/L LC50 *Oryzias latipes* 96 h semi-static 1
560 - 1000 mg/L LC50 *Poecilia reticulata* 96 h 1
560 - 1000 mg/L LC50 *Poecilia reticulata* 96 h semi-static 1
72 - 133 mg/L LC50 *Oncorhynchus mykiss* 96 h static 1
93 - 170 mg/L LC50 *Pimephales promelas* 96 h flow-through 1
114 mg/L LC50 *Pimephales promelas* 96 h 1
252 mg/L LC50 *Lepomis macrochirus* 96 h 1
470 mg/L LC50 *Pimephales promelas* 96 h static 1
Water Flea Data: 560 - 1000 mg/L LC50 *Daphnia magna* 48 h

Sodium Hydroxide - 1310-73-2

Freshwater Fish Species Data: 45.4 mg/L LC50 *Oncorhynchus mykiss* 96 h static 1
189 mg/L LC50 *Leuciscus idus* 48h
Water Flea Data: 40.4 mg/L EC50 *Ceriodaphnia* sp. 48h

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Water	None	None	None	None
Ethylenediaminetetraacetic Acid Tetrasodium Salt	None	None	None	None
Sodium hydroxyacetate	None	None	None	None
Nitilotriacetic Acid Trisodium Salt	None	None	None	None
Sodium Hydroxide	None	None	None	None

14. TRANSPORT INFORMATION

DOT
UN-No: UN3267
Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s. (EDTA tetrasodium salt and sodium hydroxide solution)
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
ERG No: 153

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14. TRANSPORT INFORMATION

Marine Pollutant No data available
DOT RQ (lbs): No information available
Special Provisions No Information available
Symbol(s): G

TDG (Canada)

UN-No: UN3267
Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s.
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

ADR

UN-No: UN3267
Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s.
Hazard Class: 8
Packing Group: III
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG

UN-No: UN3267
Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s.
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Description: No information available
IMDG Page: No information available
Marine Pollutant No information available
EMS: F-A
MFAG: No information available
Maximum Quantity: No information available

RID

UN-No: UN3267
Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s.
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Classification Code: No information available
Description: No information available

ICAO

UN-No: UN3267
Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s.
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

IATA

Product code: E1048

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14. TRANSPORT INFORMATION

UN-No: UN3267
Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s.
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 8L
Special Provisions No information available
Description: No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Water</i>	Present	Present KE-35400	Present	Not present	Present	Present	Present 231-791-2
<i>Ethylenediaminetetraacetic Acid Tetrasodium Salt</i>	Present	Present KE-13654	Present	Present (2)-1265	Present	Present	Present 200-573-9
<i>Sodium hydroxyacetate</i>	Not Listed	Not present	Not present	Not present	Not present	Not present	Not present
<i>Nitilotriacetic Acid Trisodium Salt</i>	Present	Present KE-25937	Present	Present (2)-1277	Present	Present	Present 225-768-6
<i>Sodium Hydroxide</i>	Present	Present KE-31487	Present	Present (2)-1972 (1)-410	Present	Present	Present 215-185-5

U.S. Regulations

Ethylenediaminetetraacetic Acid Tetrasodium Salt

FDA - Direct Food Additives 21 CFR 173.310 21 CFR 173.315

FDA - 21 CFR - Total Food Additives 173.310 173.315 175.105 175.125 175.300 176.150 176.170 176.210 178.1010 178.3910

Nitilotriacetic Acid Trisodium Salt

Massachusetts RTK: Present

FDA - Direct Food Additives 21 CFR 173.310

FDA - 21 CFR - Total Food Additives 173.310

Sodium Hydroxide

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 1706

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present

Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

1000 lb RQ

100 lb RQ

Louisiana Reportable Quantity List for Pollutants: 1000lbfinal RQ

454kgfinal RQ

California Directors List of Hazardous Substances: Present

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1763

FDA - Direct Food Additives 21 CFR 173.310

FDA - 21 CFR - Total Food Additives 155.191 155.194 163.110 163.111 163.112 172.560 172.814 172.892 173.310 176.170 176.180 176.210 177.1600 177.2800 184.1763 73.85

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

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Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Water	Not Listed	Not Listed	Not Listed	Not Listed
Ethylenediaminetetraacetic Acid Tetrasodium Salt	Not Listed	Not Listed	Not Listed	Not Listed
Sodium hydroxyacetate	Not Listed	Not Listed	Not Listed	Not Listed
Nitrilotriacetic Acid Trisodium Salt	Not Listed	Not Listed	Not Listed	Not Listed
Sodium Hydroxide	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting <i>de minimis</i>
Water	None	None	None	None	None
Ethylenediaminetetraacetic Acid Tetrasodium Salt	None	None	None	None	None
Sodium hydroxyacetate	None	None	None	None	None
Nitrilotriacetic Acid Trisodium Salt	None	None	None	None	None
Sodium Hydroxide	1000 lb final RQ 454 kg final RQ	None	None	None	None

U.S. TSCA

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Water	Not Applicable	Not Applicable
Ethylenediaminetetraacetic Acid Tetrasodium Salt	Not Applicable	Not Applicable
Sodium hydroxyacetate	Not Applicable	Not Applicable
Nitrilotriacetic Acid Trisodium Salt	Not Applicable	Not Applicable
Sodium Hydroxide	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

E Corrosive material
D2A Very toxic materials

Water

Uncontrolled product according to WHMIS classification criteria

Ethylenediaminetetraacetic Acid Tetrasodium Salt

D2B E including 39%, 50%

Nitrilotriacetic Acid Trisodium Salt

D2A E

Sodium Hydroxide

E including 0.04% in aqueous solution, 0.08%, 0.4% in aqueous solution, 2%, 2.5%, 4% in aqueous solution, 5%, 10%, 16%, 20%, 40%, 50% in aqueous solution, 8.7N

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Sodium Hydroxide	1 %

Inventory

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Components	Canada (DSL)	Canada (NDSL)
Water	Present	Not Listed
Ethylenediaminetetraacetic Acid Tetrasodium Salt	Present	Not Listed
Sodium hydroxyacetate	Not Listed	Not Listed
Nitrilotriacetic Acid Trisodium Salt	Present	Not Listed
Sodium Hydroxide	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Water	Not listed	Not listed
Ethylenediaminetetraacetic Acid Tetrasodium Salt	Not listed	Not listed
Sodium hydroxyacetate	Not listed	Not listed
Nitrilotriacetic Acid Trisodium Salt	Not listed	Not listed
Sodium Hydroxide	Not listed	Not listed

EU Classification

R-phrase(s)

R34 - Causes burns.

R40 - Limited evidence of a carcinogenic effect

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Components	Classification	Concentration Limits:	Safety Phrases
Water		No information	
Ethylenediaminetetraacetic Acid Tetrasodium Salt	Xn; R22 Xi; R41	No information	S2 S26 S39 S46
Sodium hydroxyacetate		No information	
Nitrilotriacetic Acid Trisodium Salt	Xn; R22 Xi; R36 Carc.Cat.3; R40	5%≤C: Carc.Cat.3; R:40	S2 S26 S36/37 S46
Sodium Hydroxide	C; R35	5%≤C: C; R:35 2%≤C<5%: C; R:34 0.5%≤C<2%: Xi; R:36/38	S1/2 S26 S37/39 S45

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

C - Corrosive.

Product code: E1048

Product name:
ETHYLENEDIAMINETETRAACETIC
ACID TETRASODIUM SALT,
SOLUTION

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16. OTHER INFORMATION

Preparation Date: 2/22/2016
Revision Date: 2/22/2016
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet