

SAFETY DATA SHEET

FlexaTrac™-NTA-100

Section 1. Identification

GHS product identifier	: FlexaTrac™-NTA-100
Chemical name	: Nitritotriacetic acid, trisodium salt, monohydrate
Other means of identification	: N,N-bis(Carboxymethyl)-glycine, trisodium salt, monohydrate; Nitritotriacetic acid trisodium salt monohydrate; Nitritotriacetic acid, trisodium salt, monohydrate; Glycine, N, N-bis(carboxymethyl)-, trisodium salt, monohydrate; Acetic acid, nitritotri-, trisodium salt, monohydrate
Product type	: Powder.
Intended use	: Not available.
Supplier's details	: Ascend Performance Materials Inc. 1010 Travis Street, Suite 900 Houston, TX 77002 USA 1-713-315-5700
e-mail address of person responsible for this SDS	: stewardship@ascendmaterials.com
Emergency telephone number (with hours of operation)	: Emergency phone: CHEMTREC Toll Free Within USA: 800-424-9300 or +1-703-527-3887 (USA) or +(44)-870-8200418 (UK) or 800-101-2201/ +(65)-31581349 (Singapore) or +(61)-290372994 (Australia)

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: ACUTE TOXICITY (oral) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A CARCINOGENICITY (oral) - Category 2 AQUATIC TOXICITY (ACUTE) - Category 3
Hazards not otherwise classified	: Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

GHS label elements

Hazard pictograms



Signal word

: Warning

Hazard statements

: Harmful if swallowed.
Causes serious eye irritation.
Suspected of causing cancer if swallowed.
Harmful to aquatic life.

Precautionary statements

General

: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Section 2. Hazards identification

- Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid release to the environment.
- Response** : **IF exposed or concerned: Get medical attention.**
IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- Storage** : Store locked up.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 3. Composition/information on ingredients

- Substance/mixture** : Substance
- Chemical name** : Nitritotriacetic acid, trisodium salt, monohydrate
- CAS number** : 5064-31-3
- Other means of identification** : N,N-bis(Carboxymethyl)-glycine, trisodium salt, monohydrate; Nitritotriacetic acid trisodium salt monohydrate; Nitritotriacetic acid, trisodium salt, monohydrate; Glycine, N, N-bis(carboxymethyl)-, trisodium salt, monohydrate; Acetic acid, nitritotri-, trisodium salt, monohydrate

Ingredient name	%	CAS number
trisodium nitritotriacetate	92 - 94	5064-31-3
water	6 - 8	7732-18-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If irritation persists, get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : May cause skin irritation.
- Ingestion** : Harmful if swallowed. Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : redness
- Ingestion** : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

- Specific hazards arising from the chemical** : This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Section 5. Fire-fighting measures

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides
hydrogen cyanide
Ammonia.
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Approach release from upwind. Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.

Section 7. Handling and storage

Advice on general occupational hygiene

Do not reuse container.

- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

- : Store in accordance with local regulations. Store locked up. Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

Bulk : Store only in properly designed, dedicated systems. The compatibility of all materials of construction should be known. Perform regular inspections on containers, storage tanks etc... to check for leakages. Use appropriate containment to avoid environmental contamination.

Non-bulk : Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
trisodium nitrilotriacetate	Ascend Workplace Exposure Guideline 1 mg/m ³ total dust 8 hour TWA Ceiling 2 mg/m ³ total dust 15 minute STEL

Appropriate engineering controls

- : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

- : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection

Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Recommended: > 8 hours (breakthrough time): neoprene butyl rubber nitrile rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Personal protective equipment (Pictograms)	: 

Section 9. Physical and chemical properties

Appearance

Physical state	: Solid. [Crystalline powder.]
Color	: White.
Odor	: Not available.
Odor threshold	: Not available.
pH	: 10.6 to 11 [Conc. (% w/w): 1%]
Melting point	: Decomposition temperature: 340°C (644°F)
Boiling point	: Decomposition temperature: 340°C (644°F)
Flash point	: Not applicable.
Evaporation rate	: Not applicable.
Flammability (solid, gas)	: No flammable ingredients present.
Lower and upper explosive (flammable) limits	: Not applicable
Vapor pressure	: 0.00000000013 kPa (0.000000001 mm Hg) [room temperature]
Vapor density	: Not applicable
Density	: 1.782 g/cm ³ [25°C (77°F)]
Solubility in water	: 457 g/l
Partition coefficient (LogKow)	: -13.2
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: 340°C (644°F)
Viscosity	: Dynamic (room temperature): Not applicable. Kinematic (room temperature): Not applicable.

Section 10. Stability and reactivity

- Reactivity** : Trisodium nitrilotriacetate is a chelating agent, and will react with and chelate metal ions in solution. NTA-Na₃ is reactive to multivalent metals such as iron, calcium, and copper. Rates of these reactions are pH dependent.
- Chemical stability** : Trisodium nitrilotriacetate is a chelating agent, and will react with and chelate metal ions in solution. NTA-Na₃ is reactive to multivalent metals such as iron, calcium, and copper. Rates of these reactions are pH dependent.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
trisodium nitrilotriacetate	LC50 Inhalation Dusts and mists	Rat - Male	>5 mg/l	4 hours
	LD50 Oral	Rat - Female	1300 mg/kg	-
	LD50 Oral	Rat - Male	Single dose 1600 mg/kg	-
	NOAEL Dermal	Rabbit - Male, Female	Single dose >10000 mg/kg 24 hours per day 25% (aqueous)	-

Conclusion/Summary : Harmful if swallowed.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
trisodium nitrilotriacetate	Skin - Erythema/Eschar	Rabbit	1.5	24 hours 25%	5 days
	Skin - Erythema/Eschar	Rabbit	0	Pure Product (As Is)	-
	Eyes - Irritant	Rabbit	-	24 hours 38%	8 days
	Eyes - Moderate irritant	Rabbit	-	24 hours Pure Product (As Is)	8 days

Conclusion/Summary

Eyes : Causes serious eye irritation.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
trisodium nitrilotriacetate	skin	Guinea pig	Not sensitizing
	skin	Man	Not sensitizing

Mutagenicity

Section 11. Toxicological information

Product/ingredient name	Test	Experiment	Result
trisodium nitrilotriacetate	471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal	Negative

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
trisodium nitrilotriacetate	Positive - Oral - TD	Mouse - Male, Female	752 mg/kg LOAEL	18 months; 24 hours per day ad libitum
	Positive - Oral - TD	Rat - Male, Female	526 mg/kg LOAEL	18 months; 24 hours per day ad libitum
	Positive - Oral - TD	Rat - Male	100 mg/kg 0.1% (aqueous) - LOAEL	2 years; 24 hours per day ad libitum
	Positive - Oral - TD	Rat - Male, Female	92 mg/kg LOAEL	2 years; 24 hours per day ad libitum
	Positive - Oral - TD	Rat - Male, Female	9.2 mg/kg NOAEL	2 years; 24 hours per day ad libitum

Conclusion/Summary : IARC 2B
Suspected of causing cancer if swallowed.

Classification

Product/ingredient name	OSHA	IARC	NTP
trisodium nitrilotriacetate	-	2B	Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
trisodium nitrilotriacetate	Positive	Negative	Negative	Rat - Male, Female	Oral: 450 mg/kg LOAEL	2 years; 24 hours per day ad libitum

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
trisodium nitrilotriacetate	Negative - Oral	Rabbit - Female	250 mg/kg NOAEL	9 days During Pregnancy

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Section 11. Toxicological information

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : May cause skin irritation.
- Ingestion** : Harmful if swallowed. Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : redness
- Ingestion** : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : Causes serious eye irritation.
May cause respiratory irritation.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Causes serious eye irritation.
May cause respiratory irritation.
- Potential delayed effects** : Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
trisodium nitrilotriacetate	Chronic NOAEL Oral	Rat - Male, Female	92 mg/kg	2 years; 24 hours per day ad libitum 91 days
	Sub-chronic NOAEL Dermal	Rabbit - Male, Female	50 mg/kg	
	Chronic LOAEL Oral	Rat - Male, Female	526 mg/kg	2 years; 24 hours per day ad libitum 2 years; 24 hours per day ad libitum 28 days; 6 hours per day 5 workdays/week.
	Chronic LOAEL Oral	Mouse - Male, Female	752 mg/kg	
	Sub-chronic NOAEL Inhalation Dusts and mists	Rat - Male, Female	0.21 mg/l	

- General** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
- Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Numerical measures of toxicity

Section 11. Toxicological information

Acute toxicity estimates

Route	ATE value
Oral	1397.8 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
trisodium nitrilotriacetate	Acute LC50 80 mg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus	96 hours
	Acute LC50 400 mg/l Fresh water	Crustaceans - Physa heterostropha	48 hours
	Acute LC50 560 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 298 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 103 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic EC10 22.8 mg/l (biomass) Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic EC10 74.8 mg/l (growth rate) Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic EC50 91.5 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic EC50 143 mg/l Fresh water	Algae - Navicula seminulum	5 days
	Chronic LC50 90.5 mg/l Fresh water	Fish - Oncorhynchus mykiss - Embryo	27 days
	Chronic NOEC 1.43 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 9.3 mg/l Fresh water	Crustaceans - Gammarus psuedolimnaeus	21 weeks
	Chronic NOEC 18.7 mg/l Fresh water	Crustaceans - Gammarus psuedolimnaeus	21 weeks
	Chronic NOEC 12.5 mg/l Fresh water	Crustaceans - Helisoma trivolvis	120 days
	Chronic NOEC 100 mg/l Fresh water	Daphnia	21 days
	Chronic NOEC 54 mg/l Fresh water	Fish - Pimephales promelas	229 days

Conclusion/Summary : Not classified.

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
trisodium nitrilotriacetate	-	100 % - Readily - 28 days	-	-

Conclusion/Summary : This product is readily biodegradable.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
trisodium nitrilotriacetate	-	-	Readily

Bioaccumulative potential

Product/ingredient name	Partition coefficient (LogKow)	BCF	Potential
Nitrilotriacetic acid, trisodium salt, monohydrate	-13.2	-	low

Section 12. Ecological information

Mobility in soil

Soil/water partition coefficient (K_{oc}) : 1.6

Mobility : Trisodium Nitrilotriacetate is water soluble, and may move within the water phase of a soil system. The chelation of environmental metal species, as well as the rapid biodegradation of NTA-Na₃ would limit environmental transport through soil.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. For more detailed information, please refer to the regulation. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Packaging materials : Please include special considerations for the disposal of product packaging.

Section 14. Transport information

	Transport information
UN number	Not regulated.
UN proper shipping name	-
Transport hazard class(es)	-
Packing group	-
Environmental hazards	No.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments :

- Proper shipping name** : Not available.
- Ship type** : Not available.
- Pollution category** : Not available.

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b) : All components are active or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : ACUTE TOXICITY (oral) - Category 4
EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2

Composition/information on ingredients

No products were found.

State regulations

Massachusetts : The following components are listed: NTA TRISODIUM SALT.H2O

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

California Prop. 65 :  **WARNING:** This product can expose you to chemicals including trisodium nitrilotriacetate and Nitrilotriacetic acid, trisodium salt monohydrate, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Glycine, N,N-bis(carboxymethyl)-, sodium salt, hydrate (1:3:1)	70 µg/day (ingestion)	No.

International regulations

Canadian lists

Canadian NPRI : The following components are listed: Nitrilotriacetic acid (and its salts)

CEPA Toxic substances : None of the components are listed.

Canada inventory : Listed in DSL

Section 15. Regulatory information

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS) : All components are listed or exempted. Japan inventory (ISHL) : All components are listed or exempted.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	: All components are listed or exempted.
Turkey	: Not determined.
Viet Nam	: All components are listed or exempted.

Section 16. Other information

National Fire Protection Association (U.S.A.)

Product as-supplied

Health	1
Flammability	0
Instability/Reactivity	0
Special	

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of printing	: 5/25/2021
	: 5/25/2021

Section 16. Other information

Date of issue/Date of revision

Date of previous issue : No previous validation

Version : 1

Key to abbreviations :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.