

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)
 Revision date: 11/7/2023 Supersedes: 6/12/2023 Version: 4.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
 Product name : NexxGen

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Fertilizer

1.4. Supplier's details

Nutrient Technologies, Inc.
 1092 E. Kamm Ave.
 Dinuba, CA 93618, USA
 (559) 595-8090
<https://nutrient.tech/contact>

1.5. Emergency phone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
USA	CHEMTREC		800-424-9300	This number provides details for all Chemical Spill Emergency Response Concerns -24 hours a day, 7 days a week.

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Serious eye damage/eye irritation, Category 1 H318 Calculation method
 Hazardous to the aquatic environment – Acute Hazard, Category 3 H402 Calculation method
 Full text of H-statements: see section 16
 Adverse physicochemical, human health and environmental effects : Causes serious eye damage.

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) :



Signal word (GHS UN) : Danger
 Hazardous ingredients : tetrasodium ethylene diamine tetraacetate
 Hazard statements (GHS UN) : H318 - Causes serious eye damage
 H402 - Harmful to aquatic life

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Precautionary statements (GHS UN) : P102 - Keep out of reach of children.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P316 - Get emergency medical help immediately.
P305+P354+P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
tetrasodium ethylene diamine tetraacetate	CAS-No.: 64-02-8	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 STOT RE 2, H373
trisodium nitrilotriacetate	CAS-No.: 5064-31-3	0.1 – 1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 3, H402

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation : Move the affected person to the fresh air. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact : Wash off with plenty of water. If case of redness or irritation, call a doctor.
First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 20-30 minutes. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : Cough. Respiratory tract irritation.
Symptoms/effects after skin contact : Irritation. Rednesses.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : Abdominal pain, nausea.

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

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : In case of fire: Water spray. Water mist. Foam. Powders. Carbon dioxide (CO₂).
Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

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5.2. Specific hazards arising from the chemical

Fire hazard	: Not flammable.
Explosion hazard	: Not explosive.
Hazardous decomposition products in case of fire	: Carbon monoxide (CO). Carbon dioxide (CO ₂).

5.3. Special protective actions for fire-fighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Avoid contact with skin and eyes. In case of important spillage : Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Contain the spilled material by bunding. Do not allow to enter drains or water courses.

6.3. Methods and materials for containment and cleaning up

For containment	: Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite.
Methods for cleaning up	: Clean preferably with a detergent - Avoid the use of solvents.
Other information	: Dispose of contaminated materials in accordance with current regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with skin and eyes. Wear personal protective equipment. Observe the label precautions.
Hygiene measures	: Always wash hands after handling the product. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep container tightly closed. Store in a dry, cool and well-ventilated place. Keep out of the reach of children. Protect from heat and direct sunlight. Keep out of frost.
Packaging materials	: Store always product in container of same material as original container.
Storage temperature	: < 35 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure that there is a suitable ventilation system.
Environmental exposure controls	: Do not allow into drains or water courses.
Other information	: Do not eat, drink or smoke when using this product.

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8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection	: In case of repeated or prolonged contact wear gloves. Type : Latex. Nitrile rubber. PVC gloves. Butyl rubber
Eye protection	: Wear security glasses which protect from splashes. (EN 166). Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s)



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Concentrate. Soluble
Colour	: Brown.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: > 90 °C (ISO 3405)
Flammability	: Not flammable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 93 °C (ISO 3679)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 8 +/- 0,6
pH solution	: 7.4 (+/- 0,6) (1% in water)
Viscosity, kinematic (calculated value) (40 °C)	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 1.175 +/- 1,5%
Relative vapour density at 20°C	: Not available
Solubility	: Soluble in water.
Particle size	: Not applicable

tetrasodium ethylene diamine tetraacetate (64-02-8)

Vapour pressure	0 hPa Temp.: 25 °C Remarks on result: 'other:'
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9.2. Data relevant with regard to physical hazard classes (supplemental)

Explosive properties	: Not explosive
Oxidising properties	: Non oxidizing
Additional information	: Efflux time : 9 s

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

10.3. Possibility of hazardous reactions

To our knowledge, the product does not present any particular risk, under normal conditions of use.

10.4. Conditions to avoid

Heat. Freezing.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
 Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
 Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

tetrasodium ethylene diamine tetraacetate (64-02-8)	
LD50 oral rat	1780 – 2000 mg/kg (OECD 401 method)
ATE UN (oral)	1780 mg/kg bodyweight
ATE UN (gases)	4500 ppmv/4h
ATE UN (vapours)	11 mg/l/4h
ATE UN (dust,mist)	1.5 mg/l/4h

trisodium nitrilotriacetate (5064-31-3)	
LD50 oral rat	1740 mg/kg (OECD 401 method)
ATE UN (oral)	1740 mg/kg bodyweight

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met).
 pH: 8 +/- 0,6
 Serious eye damage/irritation : Causes serious eye damage.
 pH: 8 +/- 0,6
 Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)
 Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
 Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)
 Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
 STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
 STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

tetrasodium ethylene diamine tetraacetate (64-02-8)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Harmful to aquatic life.

Classification procedure (Hazardous to the aquatic environment, short-term (acute)) : Calculation method

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

tetrasodium ethylene diamine tetraacetate (64-02-8)	
LC50 - Fish [1]	> 100 mg/l (96 Hours) (Oncorhynchus mykiss) (OECD 203 method)
EC50 - Crustacea [1]	> 114 mg/l (48 Hours) (Daphnia magna) (OECD 202 method)
ErC50 algae	> 100 mg/l (72 Hours) (Raphidocelis subcapitata) (OECD 201 method)
NOEC chronic fish	≥ 35.1 mg/l (35 days) (Danio rerio) (OECD 210 method)
NOEC chronic crustacea	25 mg/l (21 days) (Daphnia magna) (OECD 211 method)

trisodium nitrilotriacetate (5064-31-3)	
LC50 - Fish [1]	> 100 mg/l (96 Hours) (Pimephales promelas)
EC50 - Crustacea [1]	> 560 mg/l (48 Hours) (Daphnia magna) (OECD 202 method)
ErC50 algae	> 91.5 mg/l (72 Hours) (Desmodesmus subspicatus) (OECD 201 method)
NOEC chronic fish	> 54 mg/l (229 days) (Pimephales promelas)
NOEC chronic crustacea	100 mg/l (21 days) (Daphnia magna) (OECD 211 method)

12.2. Persistence and degradability

NexxGen	
Persistence and degradability	Not rapidly degradable

tetrasodium ethylene diamine tetraacetate (64-02-8)	
Persistence and degradability	Inherently biodegradable.

trisodium nitrilotriacetate (5064-31-3)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

NexxGen	
Bioaccumulative potential	No additional information available

12.4. Mobility in soil

NexxGen	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available

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SECTION 13: Disposal considerations

13.1. Disposal methods

- Waste treatment methods : Recycle or dispose of in compliance with current legislation. Dispose of at a licensed waste collection centre. Do not discharge into drains or the environment.
- Product/Packaging disposal recommendations : Empty the packaging completely prior to disposal. Do not remove label until container is thoroughly cleaned. Dispose of at an licensed site.

SECTION 14: Transport information

In accordance with RTMD ONU / IMDG / IATA

UN RTDG	IMDG	IATA
14.1. UN number		
Not applicable	Not applicable	Not applicable
14.2. UN Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Not applicable	Not applicable	Not applicable
No supplementary information available		

14.6. Special precautions for user

UN RTDG

Not applicable

IMDG

Not applicable

IATA

Not applicable

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

Revision date : 11/7/2023
Supersedes : 6/12/2023

Abbreviations and acronyms : ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

EC50 - Median effective concentration
LC50 - Median lethal concentration
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
ED - Endocrine disrupting properties
EN - European Standard
SDS - Safety Data Sheet
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods
LD50 - Median lethal dose
CAS-No. - Chemical Abstract Service number
EC-No. - European Community number
PBT - Persistent Bioaccumulative Toxic
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
OEL - Occupational Exposure Limit
vPvB - Very Persistent and Very Bioaccumulative

Full text of H-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
H302	Harmful if swallowed
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life

Safety Data Sheet (SDS), UN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.