



ENERGY SUPER 10 L

WM 1208589

Order number: 1502722

Version 5.0

Revision Date 16.10.2019

Print Date 08.03.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : ENERGY SUPER 10 L
Identification number : 61224

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : detergents for dishwashers
Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : tana Chemie GmbH
Rheinallee 96
55120 Mainz
Telephone : +49613196403
Telefax : +4961319642414
E-mail address : Produktsicherheit@werner-mertz.com
Responsible/issuing person
Contact person : Product development / product safety

1.4 Emergency telephone number

112
+49(0)6131-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1 H290: May be corrosive to metals.

Skin corrosion, Category 1A H314: Causes severe skin burns and eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.



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Precautionary statements : P102 Keep out of reach of children.
Prevention:
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:
potassium hydroxide

Additional Labelling:

Safety data sheet available on request.

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous solution

Hazardous components

| Chemical name | CAS-No. EC-No. Registration number | Classification | Concentration (% w/w) |
|---------------------|--|--|--------------------------|
| potassium hydroxide | 1310-58-3 215-181-3 01-2119487136-33 | Acute Tox. 4; H302 Skin Corr. 1A; H314 Met. Corr. 1; H290 SCL ≥ 5 % 1A; H314 2 - < 5 % 1B; H314 0,5 - < 2 % 2; H315 0,5 - < 2 % 2; H319 | ≥ 10 - < 15 |



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| | | | |
|---|--|--|-------------|
| tetrasodium ethylenediaminetetraacetate | 64-02-8 200-573-9 01-2119486762-27 | Eye Dam. 1; H318 Acute Tox. 4; H332 Acute Tox. 4; H302 STOT RE 2; H373 | >= 5 - < 10 |
| etidronic acid | 2809-21-4 220-552-8 01-2119510391-53 | Met. Corr. 1; H290 Acute Tox. 4; H302 Eye Dam. 1; H318 | >= 1 - < 2 |
| Glycine, N-(carboxymethyl)-N-[2-[(carboxymethyl)amino]ethyl]-, trisodium salt | 19019-43-3 | Eye Irrit. 2; H319 | >= 1 - < 2 |
| trisodium nitrilotriacetate | 5064-31-3 225-768-6 01-2119519239-36 | Carc. 2; H351 Eye Irrit. 2; H319 Acute Tox. 4; H302 SCL >= 5 % 2; H351 | >= 0 - < 1 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Protect unharmed eye.
Continue rinsing eyes during transport to hospital.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.



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4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : corrosive effects
- Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products :
No hazardous combustion products are known

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

6.2 Environmental precautions

- Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up



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

6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : detergents for dishwashers

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

potassium hydroxide : End Use: Workers
1310-58-3: Exposure routes: Inhalation
Potential health effects: Long-term local effects



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**tetrasodium
ethylenediaminetetraacetate
64-02-8:**

Value: 1 mg/m³

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 1 mg/m³

: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 1,5 mg/m³

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 3,0 mg/m³

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 2,8 mg/m³

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 1,5 mg/m³

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute systemic effects
Value: 2,8 mg/m³

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 0,6 mg/m³

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 0,6 mg/m³

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 1,2 mg/m³

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Acute systemic effects
Value: 1,2 mg/m³

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects



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| | |
|---|--|
| | Value: 25 mg/kg |
| | End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term local effects Value: 25 mg/kg |
| trisodium nitrilotriacetate 5064-31-3: | : End Use: Workers Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 5,25 mg/m3 |
| | End Use: Workers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 5,25 mg/m3 |
| | End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 3,5 mg/m3 |
| | End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 3,5 mg/m3 |
| | End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 1,75 mg/m3 |
| | End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 1,75 mg/m3 |
| | End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 0,5 mg/kg |

PNEC

| | |
|---|----------------------------------|
| tetrasodium ethylenediaminetetraacetate 64-02-8: | : Fresh water Value: 2,2 mg/l |
| | Marine water Value: 0,22 mg/l |
| | Soil Value: 0,72 mg/kg |
| | STP |



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| | |
|---|---|
| | Value: 43 mg/l |
| | intermittent release Value: 1,2 mg/l |
| | Fresh water Value: 2,8 mg/l |
| | Marine water Value: 0,28 mg/l |
| | intermittent release Value: 1,6 mg/l |
| | STP Value: 57 mg/l |
| | Soil Value: 0,95 mg/kg |
| etidronic acid 2809-21-4: | : Fresh water Value: 0,136 mg/l |
| | Marine water Value: 0,014 mg/l |
| | STP Value: 20 mg/l |
| | Fresh water sediment Value: 59 mg/l |
| | Marine sediment Value: 5,9 mg/l |
| | Soil Value: 96 mg/kg |
| trisodium nitrilotriacetate 5064-31-3: | : Fresh water Value: 0,93 mg/l |
| | Marine water Value: 0,093 mg/l |
| | intermittent release Value: 0,915 mg/l |
| | STP Value: 540 mg/l |
| | Fresh water sediment Value: 3,64 mg/kg |
| | Marine sediment Value: 0,364 mg/kg |



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Soil
Value: 0,182 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Remove and wash contaminated clothing before re-use.

Respiratory protection : Not required; except in case of aerosol formation.
Recommended Filter type:
ABEK-P3-filter

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : clear, light yellow

Odour : characteristic

Odour Threshold : No data available

pH : ca. 12,2, Concentration: 10,00 g/l
at 20 °C
(as aqueous solution)

Melting point/range : No data available

Boiling point/boiling range : No information available.

Flash point : Not applicable

Evaporation rate : No data available



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| | |
|--|--|
| Flammability (solid, gas) | : No data available |
| Flammability (liquids) | : No data available |
| Burning rate | : No data available |
| Lower explosion limit | : No data available |
| Upper explosion limit | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density | : No data available |
| Relative density | : No data available |
| Density | : ca. 1,287 g/cm ³ at 20 °C |
| Water solubility | : completely soluble |
| Solubility in other solvents | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Ignition temperature | : No data available |
| Thermal decomposition | : No data available |
| Viscosity, dynamic | : No data available |
| Viscosity, kinematic | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions., No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions., No decomposition if used as directed.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials



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Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.
Other information : No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity : Acute toxicity estimate : > 2.000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Skin corrosion/irritation : Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation : May cause irreversible eye damage.

Respiratory or skin sensitisation : No data available

Germ cell mutagenicity : Not Rated

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

STOT - single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity : Not Rated

Further information : No data available

Components:
potassium hydroxide
| 1310-58-3:



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| | |
|-----------------------------------|--|
| Acute oral toxicity | : LD50 Rat: 273 mg/kg |
| | Acute toxicity estimate : 500,0 mg/kg Method: Converted acute toxicity point estimate |
| | LD50 Oral Rat, male: 333 mg/kg Method: OECD Test Guideline 425 |
| Skin corrosion/irritation | : Result: Corrosive |
| Serious eye damage/eye irritation | : Species: Rabbit Result: Corrosive Method: OECD Test Guideline 405 |
| Respiratory or skin sensitisation | : Species: Guinea pig Result: Did not cause sensitisation on laboratory animals. |
| Germ cell mutagenicity | |
| Genotoxicity in vitro | : Type: Ames test Test species: Salmonella typhimurium Result: negative |

tetrasodium ethylenediaminetetraacetate

64-02-8:

| | |
|---------------------------|---|
| Acute oral toxicity | : LD50 Oral Rat: > 2.000 mg/kg |
| | LD50 : 1.780 mg/kg |
| Acute inhalation toxicity | : LC50 Rat: 1 - 5 mg/l Exposure time: 6 h Method: OECD Test Guideline 403 |

etidronic acid

2809-21-4:

| | |
|-----------------------|-------------------------------------|
| Acute oral toxicity | : LD50 Rat: 1.878 mg/kg |
| Acute dermal toxicity | : LD50 Dermal Rabbit: > 6.000 mg/kg |

trisodium nitrilotriacetate

5064-31-3:

| | |
|---------------------|--|
| Acute oral toxicity | : Acute toxicity estimate : 500,0 mg/kg Method: Converted acute toxicity point estimate |
|---------------------|--|



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| | |
|-----------------------------------|---|
| Acute inhalation toxicity | : LC50 Rat: 1 - 5 mg/l Method: OECD Test Guideline 403 |
| Respiratory or skin sensitisation | : Test Method: Buehler Test Species: Guinea pig Result: Does not cause skin sensitisation. Method: OECD Test Guideline 406 |

SECTION 12: Ecological information

12.1 Toxicity

Components:

potassium hydroxide

1310-58-3:

| | |
|---|---|
| Toxicity to fish | : (Pimephales promelas (fathead minnow)): 880 mg/l Exposure time: 96 h Test Type: static test |
| | LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l Exposure time: 96 h |
| | LC50 (Poecilia reticulata (guppy)): 165 mg/l Exposure time: 24 h |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 660 mg/l Exposure time: 48 h Test Type: static test |
| Toxicity to algae | : EC50 : 1.337 mg/l Exposure time: 120 h |
| Toxicity to bacteria | : EC50 (Photobacterium phosphoreum): 22 mg/l Exposure time: 15 min |
| Toxicity to soil dwelling organisms | : LC50: 850 mg/kg Exposure time: 90 d |

tetrasodium ethylenediaminetetraacetate

64-02-8:

| | |
|------------------|--|
| Toxicity to fish | : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 100 mg/l Exposure time: 96 h Test Type: static test |
| | LC50 (Leuciscus idus (Golden orfe)): > 500 mg/l Exposure time: 96 h |
| | LC50 (Lepomis macrochirus (Bluegill sunfish)): > 1.000 mg/l Exposure time: 96 h |
| | NOEC (Brachydanio rerio (zebrafish)): > 25,7 mg/l |



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| | |
|--|--|
| | Exposure time: 35 d |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: DIN 38412 |
| | EC50 (Daphnia magna Straus): 140 mg/l Exposure time: 48 h Method: DIN 38412 |
| | NOEC (Daphnia magna (Water flea)): 25 mg/l Exposure time: 21 d |
| Toxicity to algae | : EC50 (Scenedesmus obliquus): > 100 mg/l Exposure time: 72 h Test Type: static test Method: see user defined free text |
| | EC50 (Desmodesmus subspicatus (green algae)): > 300 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| Toxicity to bacteria | : EC20 (activated sludge): > 500 mg/l Exposure time: 30 min Method: OECD Test Guideline 209 |
| Toxicity to fish (Chronic toxicity) | : NOEC: 36,9 mg/l Exposure time: 35 d Species: Brachydanio rerio Method: OECD Test Guideline 210 |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC: 25 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 |
| Toxicity to soil dwelling organisms | : LC50: 156 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) Method: see user defined free text |
| etidronic acid 2809-21-4: | |
| Toxicity to fish | : LC50 (Oncorhynchus mykiss (rainbow trout)): 195 mg/l Exposure time: 96 h |
| | LC50 (Oncorhynchus mykiss (rainbow trout)): 368 mg/l Exposure time: 96 h |
| | LC50 (Cyprinodon variegatus (sheepshead minnow)): 2.180 mg/l Exposure time: 96 h |
| | LC50 (Lepomis macrochirus (Bluegill sunfish)): 868 mg/l Exposure time: 96 h |



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| | |
|--|---|
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 527 mg/l Exposure time: 48 h |
| Toxicity to algae | : EC50 (Scenedesmus subspicatus): 7,2 mg/l Exposure time: 96 h |
| Toxicity to fish (Chronic toxicity) | : NOEC: 180 mg/l Exposure time: 14 d Species: Oncorhynchus mykiss (rainbow trout) |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC: 6,75 mg/l Exposure time: 28 d Species: Daphnia magna (Water flea) |

trisodium nitrilotriacetate

5064-31-3:

| | |
|--|--|
| Toxicity to fish | : (Lepomis macrochirus (Bluegill sunfish)): > 100 mg/l Exposure time: 96 h Test Type: static test (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: flow-through test |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: DIN 38412 EC50 : 98 mg/l Exposure time: 96 h |
| Toxicity to algae | : EC50 : > 100 mg/l Exposure time: 72 h Test Type: Growth inhibition Remarks: see user defined free text EC50 (Scenedesmus subspicatus): > 91,5 mg/l Exposure time: 72 h Test Type: static test |
| Toxicity to bacteria | : EC20 (see user defined free text): > 500 mg/l Method: OECD Test Guideline 209 EC50 (see user defined free text): 3.200 - 5.600 mg/l Exposure time: 8 h |
| Toxicity to fish (Chronic toxicity) | : NOEC: 36,9 mg/l Exposure time: 35 d Method: OECD Test Guideline 210 |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC: 25 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) |



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Toxicity to soil dwelling organisms

Method: OECD Test Guideline 211
: LC50: 156 mg/kg
Exposure time: 14 d
Species: Eisenia fetida (earthworms)
Method: see user defined free text

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Components:

tetrasodium ethylenediaminetetraacetate

64-02-8:

ThOD : 262 mg/g

etidronic acid

2809-21-4:

Biodegradability : Biodegradation: 33 %
Exposure time: 28 d

trisodium nitrilotriacetate

5064-31-3:

Biodegradability : Biodegradation: 90 - 100 %
Exposure time: 28 d
Method: OECD 301 B

12.3 Bioaccumulative potential

Components:

potassium hydroxide

1310-58-3:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

trisodium nitrilotriacetate

5064-31-3:

Bioaccumulation : Exposure time: 96 h
Bioconcentration factor (BCF): 3
Remarks: No bioaccumulation is to be expected (log Pow <= 4).

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Components:

potassium hydroxide

1310-58-3:



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Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..

trisodium nitrilotriacetate

5064-31-3:

Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..

12.6 Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

ADR : 1760
IMDG : 1760
IATA : 1760

14.2 Proper shipping name

ADR : CORROSIVE LIQUID, N.O.S.
(potassium hydroxide)
IMDG : CORROSIVE LIQUID, N.O.S.
(potassium hydroxide)
IATA : Corrosive liquid, n.o.s. Not permitted for transport

14.3 Transport hazard class

ADR : 8
IMDG : 8
IATA : 8

14.4 Packing group

ADR
Classification Code : C9



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Packaging group : II
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

IMDG

Packaging group : II
Labels : 8
EmS Number : F-A, S-B

IATA

(Cargo) : Corrosive liquid, n.o.s. Not permitted for transport
Packaging group : II
Labels : 8

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA

Environmentally hazardous : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

TA Luft List (Germany) : Total dust: Not applicable
: Inorganic substances in powdered form: Not applicable
: Inorganic substances in vapour or gaseous form: Not applicable
: Organic Substances: : portionClass 1: 0,73 % : portionClass



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| | |
|--|--|
| | 2: 0,03 % |
| | : Carcinogenic substances: Not applicable |
| | : Mutagenic: Not applicable |
| | : Toxic to reproduction: Not applicable |
| Volatile organic compounds (VOC) content | : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Update: Percent volatile: 0,04 % 2,72 g/l VOC content excluding water |
| Volatile organic compounds (VOC) content | : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Update: Percent volatile: 0,04 % 0,56 g/l VOC content valid only for coating materials used on wood surfaces |
| according to Detergents Regulation EC 648/2004 | : 5 - <15% EDTA and salts thereof, <5% Phosphonates, NTA (nitrilotriacetic acid) and salts thereof, Polycarboxylates, Perfumes |
| GISBAU (D) | : no assignment possible |

15.2 Chemical safety assessment

There is no data available for this product.

SECTION 16: Other information

Full text of H-Statements

| | |
|------|---|
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| 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 if inhaled. |

Further information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

| | | |
|---------------------------|------|--------------------|
| Classification procedure: | H290 | Calculation method |
| | H314 | Calculation method |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body



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weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.