



## ENERGY super

WM 0712776

Order number: 0712776

Version 5.7

Revision Date 08.04.2023

Print Date 12.02.2025

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

#### 1.1 Product identifier

Trade name : ENERGY super  
UFI : M2D5-80V0-V00Y-AQDC

#### 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  
Centru za kontrolu otrovanja u Zagrebu na tel. (01) 2348 342  
+49(0)551-19240

### 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.

Precautionary statements : P102 Keep out of reach of children.



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### 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. Immediately call a POISON CENTER/ doctor.

P310

### Disposal:

P501 Dispose of container into the collection of recyclables only when it is completely empty.

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

#### Components

| Chemical name       | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number      | Classification  | Concentration<br>(% w/w) |
|---------------------|--|---|--------------------------|
| potassium hydroxide | 1310-58-3<br>215-181-3<br>019-002-00-8<br>01-2119487136-33 | Acute Tox. 4; H302<br>Skin Corr. 1A; H314<br>Met. Corr. 1; H290<br>Eye Dam. 1; H318<br><br>specific concentration<br>limit<br>Skin Corr. 1A; H314<br>≥ 5 %<br>Skin Corr. 1B; H314<br>2 - < 5 %<br>Skin Irrit. 2; H315<br>0,5 - < 2 %<br>Eye Irrit. 2; H319<br>0,5 - < 2 %<br><br>Acute toxicity estimate<br><br>Acute oral toxicity:<br>500,0 mg/kg | ≥ 10 - < 15              |



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|   |  |  |             |
|---|--|--|-------------|
| tetrasodium ethylenediaminetetraacetate                                       | 64-02-8<br>200-573-9<br>607-428-00-2<br>01-2119486762-27   | Eye Dam. 1; H318<br>Acute Tox. 4; H332<br>Acute Tox. 4; H302<br>STOT RE 2; H373  | >= 5 - < 10 |
| etidronic acid  | 2809-21-4<br>220-552-8<br>01-2119510391-53                 | Met. Corr. 1; H290<br>Acute Tox. 4; H302<br>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<br>225-768-6<br>607-620-00-6<br>01-2119519239-36 | Carc. 2; H351<br>Eye Irrit. 2; H319<br>Acute Tox. 4; H302<br><br>specific concentration limit<br>Carc. 2; H351<br>>= 5 %<br><br>Acute toxicity estimate<br><br>Acute oral toxicity:<br>500,0 mg/kg | >= 0 - < 1  |

### 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.

#### 4.2 Most important symptoms and effects, both acute and delayed

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



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### 4.3 Indication of any immediate medical attention and special treatment needed

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

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## 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.

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## 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 material for containment and cleaning up

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.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling



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- 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.
- Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

- Specific use(s) : detergents for dishwashers

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face 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).



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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

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### **SECTION 9: Physical and chemical properties**

#### **9.1 Information on basic physical and chemical properties**

Appearance : liquid

Colour : colourless

Odour : characteristic

Odour Threshold : No data available

pH : ca. 14, 100 %  
at 20 °C  
(undiluted)

Melting point/range : No data available

Boiling point/boiling range : No information available.

Flash point : does not flash

Evaporation rate : No data available

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<sup>3</sup> at 20 °C

Water solubility : completely soluble

Solubility in other solvents : No data available

Partition coefficient: n- : No data available



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octanol/water

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

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Our company is strongly against animal testing.  
Our company does not place any orders for animal testing for the finished product or the ingredients.  
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

#### Acute toxicity

##### 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



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Method: Calculation method

### Components:

#### potassium hydroxide

##### POTASSIUM HYDROXIDE:

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

#### tetrasodium ethylenediaminetetraacetate

##### TETRASODIUM EDTA:

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

##### ETIDRONIC ACID:

Acute oral toxicity : LD50 (Rat): 1.878 mg/kg  
Acute dermal toxicity : LD50 Dermal (Rabbit): > 6.000 mg/kg

#### trisodium nitrilotriacetate

##### TRISODIUM NTA:

Acute oral toxicity : Acute toxicity estimate: 500,0 mg/kg  
Method: Converted acute toxicity point estimate  
Acute inhalation toxicity : LC50 (Rat): 1 - 5 mg/l  
Method: OECD Test Guideline 403

### Skin corrosion/irritation

#### Product:

Remarks : Extremely corrosive and destructive to tissue.

### Components:

#### potassium hydroxide

##### POTASSIUM HYDROXIDE:

Result : Corrosive

### Serious eye damage/eye irritation

#### Product:

Remarks : May cause irreversible eye damage.



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### Components:

#### potassium hydroxide

##### POTASSIUM HYDROXIDE:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Corrosive

#### Respiratory or skin sensitisation

##### Product:

Remarks : No data available

### Components:

#### potassium hydroxide

##### POTASSIUM HYDROXIDE:

Species : Guinea pig  
Result : Did not cause sensitisation on laboratory animals.

#### trisodium nitrilotriacetate

##### TRISODIUM NTA:

Test Type : Buehler Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

#### Germ cell mutagenicity

Germ cell mutagenicity : Not Rated

### Components:

#### potassium hydroxide

##### POTASSIUM HYDROXIDE:

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Result: negative

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



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### 11.2 Information on other hazards

#### Further information

##### Product:

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **POTASSIUM HYDROXIDE:**

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/aquatic plants : EC50 : 1.337 mg/l  
Exposure time: 120 h

Toxicity to microorganisms : EC50 (Photobacterium phosphoreum): 22 mg/l  
Exposure time: 15 min

Toxicity to soil dwelling organisms : LC50: 850 mg/kg  
Exposure time: 90 d

##### **TETRASODIUM EDTA:**

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  
Exposure time: 35 d

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h



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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/aquatic plants : 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 microorganisms : 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:

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

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 527 mg/l



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- aquatic invertebrates Exposure time: 48 h
- Toxicity to algae/aquatic plants : 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 NTA:

- 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/aquatic plants : 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 microorganisms : 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)  
Method: OECD Test Guideline 211



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Toxicity to soil dwelling organisms : 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 EDTA:**

ThOD : 262 mg/g

##### **ETIDRONIC ACID:**

Biodegradability : Biodegradation: 33 %  
Exposure time: 28 d

##### **TRISODIUM NTA:**

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

### 12.3 Bioaccumulative potential

#### Components:

##### **POTASSIUM HYDROXIDE:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

##### **TRISODIUM NTA:**

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:**

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).



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### TRISODIUM NTA:

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 Endocrine disrupting properties

No data available

### 12.7 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.  
In accordance with local and national regulations.

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

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR : 1760  
IMDG : 1760  
IATA : 1760

### 14.2 UN 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.

### 14.3 Transport hazard class(es)

ADR : 8  
IMDG : 8  
IATA : 8

### 14.4 Packing group

ADR  
Classification Code : C9  
Packaging group : II  
Hazard Identification Number : 80  
Labels : 8



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Tunnel restriction code : (E)  
**IMDG**  
Packaging group : II  
Labels : 8  
EmS Number : F-A, S-B  
**IATA**  
**(Cargo)** : Corrosive liquid, n.o.s.  
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 Maritime transport in bulk according to IMO instruments

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 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 %



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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.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Carc. : Carcinogenicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Met. Corr. : Corrosive to metals  
Skin Corr. : Skin corrosion  
STOT RE : Specific target organ toxicity - repeated exposure

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; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body 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



## ENERGY super

WM 0712776

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% 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; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Met. Corr. 1                      H290  
Skin Corr. 1A                    H314

#### Classification procedure:

Calculation method  
Calculation method

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.

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