



TANEX VIVACERAM 2 X 5 L

WM 0713855

Order number: 0713855

Version 4.0

Revision Date 28.06.2017

Print Date 02.08.2017

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

1.1 Product identifier

Trade name : TANEX VIVACERAM 2 X 5 L
Identification number : 61097, 61736

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

Use of the Substance/Mixture : Cleaning agent
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

+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, Sub-category 1B 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:

P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P305 + P351 + P338 + P310 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.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Alcohols, C6-12, ethoxylated
(5 EO)
Sodium metasilicate,
pentahydrate

Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous surfactant solution.

Hazardous components

| Chemical name | CAS-No. EC-No. Registration number | Classification | Concentration (% w/w) |
|---|--|---|--------------------------|
| tetrapotassium pyrophosphate | 7320-34-5 230-785-7 01-2119489369-18 | Eye Irrit. 2; H319 | >= 2 - < 5 |
| Alcohols, C6-12, ethoxylated (5 EO) | 68439-45-2 | Eye Dam. 1; H318 Acute Tox. 4; H302 | >= 2 - < 3 |
| Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride | 1554325-20-0 | Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 1; H318 | >= 1 - < 2 |



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| | | | |
|--|---|---|--------------|
| Sodium metasilicate, pentahydrate | 10213-79-3 229-912-9 01-2119449811-37 | Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H314 STOT SE 3; H335 | >= 1 - < 2 |
| sodium hydroxide | 1310-73-2 215-185-5 01-2119457892-27-XXXX | 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 | >= 0,5 - < 1 |
| Substances with a workplace exposure limit : | | | |
| (2-methoxymethylethoxy)propanol | 34590-94-8 252-104-2 01-2119450011-60 | | >= 2 - < 5 |

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.

4.2 Most important symptoms and effects, both acute and delayed



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- 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

- Methods for cleaning up : Neutralise with acid.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).



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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.
- 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. Protect from frost.

7.3 Specific end use(s)

- Specific use(s) : Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Update | Basis |
|--------------------------------|---|-------------------------------|---------------------------------|------------|------------|
| (2-methoxymethylthoxy)propanol | 34590-94-8 | TWA | 50 ppm 308 mg/m ³ | 2009-12-19 | 2000/39/EC |
| Further information | : skin: Identifies the possibility of significant uptake through the skinIndicative | | | | |
| (2-methoxymethylthoxy)propanol | 34590-94-8 | TWA | 50 ppm 308 mg/m ³ | | |
| Further | : H: Dermal absorption possible | | | | |



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| | | | | | |
|----------------------------------|------------|---------------------------------|----------------------------------|--|--|
| information | | | | | |
| (2-methoxymethyllethoxy)propanol | 34590-94-8 | | 100 ppm | | |
| Further information | : | H: Dermal absorption possible | | | |
| (2-methoxymethyllethoxy)propanol | 34590-94-8 | STEL | 150 ppm | | |
| Further information | : | H: Dermal absorption possible | | | |
| (2-methoxymethyllethoxy)propanol | 34590-94-8 | | 100 ppm | | |
| Further information | : | REL: Recommended exposure limit | | | |
| (2-methoxymethyllethoxy)propanol | 34590-94-8 | STEL | 150 ppm 900 mg/m ³ | | |
| (2-methoxymethyllethoxy)propanol | 34590-94-8 | STEL | 50 ppm 310 mg/m ³ | | |

DNEL

**tetrapotassium
pyrophosphate
7320-34-5:**

: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 2,79 mg/m³

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 0,68 mg/m³

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

**Sodium metasilicate,
pentahydrate
10213-79-3:**

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

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 6,22 mg/m³

End Use: Consumers
Exposure routes: Inhalation



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| | |
|--|--|
| | Potential health effects: Long-term systemic effects Value: 1,55 mg/m ³ |
| | End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects |
| | End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term systemic effects |
| sodium hydroxide 1310-73-2: | : End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 1 mg/m ³ |
| | End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 1 mg/m ³ |
| (2-methoxymethylethoxy)propanol 34590-94-8: | : End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects |
| | End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 310 mg/m ³ |
| | End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term systemic effects |
| | End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects |
| | End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 37,2 mg/m ³ |
| | End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 308 mg/m ³ |
| | End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects |
| | End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term systemic effects |



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

PNEC

**tetrapotassium
pyrophosphate
7320-34-5:**

: Fresh water
Value: 0,05 mg/l

Marine water
Value: 0,005 mg/l

STP
Value: 50 mg/l

intermittent release
Value: 0,5 mg/l

**Sodium metasilicate,
pentahydrate
10213-79-3:**

: Fresh water
Value: 7,5 mg/l

Marine water
Value: 1 mg/l

intermittent release
Value: 7,5 mg/l

STP
Value: 1000 mg/l

**(2-
methoxymethylethoxy)propan
ol
34590-94-8:**

: Fresh water
Value: 19 mg/l

Marine water
Value: 1,9 mg/l

Fresh water sediment
Value: 70,2 mg/kg

Marine sediment
Value: 7,02 mg/kg

Soil
Value: 2,74 mg/kg

Water
Value: 190 mg/l

STP
Value: 4168 mg/l

8.2 Exposure controls



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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 (0,4 mm).

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 : yellow-orange

Odour : characteristic

Odour Threshold : No data available

pH : ca. 11,5, Concentration: 10,00 g/l
(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

Flammability (solid, gas) : No data available

Burning rate : No data available

Lower explosion limit : No data available

Upper explosion limit : No data available



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| | |
|--|------------------------------|
| Vapour pressure | : No data available |
| Relative vapour density | : No data available |
| Relative density | : No data available |
| Density | : ca. 1,03 g/cm ³ |
| Water solubility | : 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 : Protect from frost.

10.5 Incompatible materials

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.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

- Acute oral toxicity : Acute toxicity estimate : > 2.000 mg/kg
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
- Further information : No data available

Components:

tetrapotassium pyrophosphate

7320-34-5:

- Acute oral toxicity : LD50 Oral Rat: > 2.000 mg/kg
LD50 Mouse: > 2.000 mg/kg
- Acute inhalation toxicity : LC50 Rat: 1,1 mg/l
Method: OECD Test Guideline 403
- Acute dermal toxicity : LD50 Dermal Rabbit: > 7.940 mg/kg
LD50 Dermal Rabbit: > 2.000 mg/kg
Method: OECD Test Guideline 402
- Skin corrosion/irritation : Result: Mild skin irritation
Result: No skin irritation
- Serious eye damage/eye irritation : Result: Eye irritation

Alcohols, C6-12, ethoxylated (5 EO)

68439-45-2:

- Acute oral toxicity : LD50 Oral Rat: > 300 - 2.000 mg/kg
- Acute dermal toxicity : LD50 Dermal Rat: > 2.000 mg/kg



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Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride 1554325-20-0:

| | |
|-----------------------------------|--|
| Acute oral toxicity | : LD50 Rat: > 300 - 2.000 mg/kg |
| Skin corrosion/irritation | : Result: Skin irritation |
| Serious eye damage/eye irritation | : Result: Risk of serious damage to eyes. |
| Respiratory or skin sensitisation | : Result: Does not cause skin sensitisation. |
| Germ cell mutagenicity | |
| Genotoxicity in vitro | : Type: Ames test Result: negative |

Sodium metasilicate, pentahydrate 10213-79-3:

| | |
|---------------------------|---------------------------------|
| Acute oral toxicity | : LD50 Rat: 1.152 - 1.349 mg/kg |
| Acute inhalation toxicity | : LC50 Rat: 2,06 mg/l |
| Acute dermal toxicity | : LD50 Rat: > 5.000 mg/kg |

sodium hydroxide 1310-73-2:

| | |
|-----------------------------------|------------------------------|
| Acute oral toxicity | : LD50 Oral Rat: 2.000 mg/kg |
| Skin corrosion/irritation | : Result: Corrosive |
| Serious eye damage/eye irritation | : Result: Corrosive |

(2-methoxymethylethoxy)propanol 34590-94-8:

| | |
|---------------------|-------------------------|
| Acute oral toxicity | : LD50 Rat: 5.130 mg/kg |
| | LD50 Dog: 7.500 mg/kg |
| | LD50 Rat: 5.130 mg/kg |
| | LD50 Rat: > 5.000 mg/kg |
| | LD50 Rat: 5.135 mg/kg |



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| | |
|-----------------------------------|--|
| Acute inhalation toxicity | : LC50 Rat: 55 - 60 mg/l Exposure time: 4 h |
| | LC50 Rat: 3,35 mg/l Exposure time: 7 h |
| Acute dermal toxicity | : LD50 Dermal Rabbit: 19.000 mg/kg |
| | LD50 Dermal Rat: 9.500 mg/kg |
| | LD50 Rabbit: 9.510 mg/kg |
| | LD50 Rabbit: 14.000 mg/kg |
| Respiratory or skin sensitisation | : Result: Does not cause skin sensitisation. |

SECTION 12: Ecological information

12.1 Toxicity

Components:

tetrapotassium pyrophosphate

7320-34-5:

| | |
|---|--|
| Toxicity to fish | : LC0 (Leuciscus idus (Golden orfe)): > 750 mg/l Exposure time: 48 h |
| | LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |
| Toxicity to algae | : ErC50 : > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| | NOEC : > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| Toxicity to bacteria | : (activated sludge): > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 |
| Toxicity to fish (Chronic toxicity) | : 100 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) |



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Method: OECD Test Guideline 203

Alcohols, C6-12, ethoxylated (5 EO)

68439-45-2:

- Toxicity to fish : LC50 (Fish): > 10 - 100 mg/l
Toxicity to algae : EC50 : > 10 - 100 mg/l
Toxicity to bacteria : EC50 : 10 - 100 mg/l

Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride

1554325-20-0:

- Toxicity to fish : LC50 (Fish): > 10 - 100 mg/l
Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 1 - 10 mg/l
Exposure time: 48 h
Toxicity to algae : EC50 : > 1 - 10 mg/l
Exposure time: 72 h

Sodium metasilicate, pentahydrate

10213-79-3:

- Toxicity to fish : LC50 (Brachydanio rerio): 210 mg/l
Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.700 mg/l
Exposure time: 48 h

sodium hydroxide

1310-73-2:

- Toxicity to fish : LC50 (Fish): 33 - 189 mg/l
Exposure time: 96 h
LC50 (Gambusia affinis (Mosquito fish)): 125 mg/l
Exposure time: 96 h
LC50 (Poecilia reticulata (guppy)): 76 mg/l
Exposure time: 24 h
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 40,4 mg/l
EC50 (Daphnia magna (Water flea)): 76 mg/l
Exposure time: 24 h
Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 22 mg/l
Exposure time: 15 min

(2-methoxymethylethoxy)propanol

34590-94-8:

- Toxicity to fish : (Pimephales promelas (fathead minnow)): > 10.000 mg/l
Exposure time: 96 h



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|--|---|
| | Test Type: static test (Poecilia reticulata (guppy)): > 1.000 mg/l Exposure time: 96 h Test Type: static test |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 1.919 mg/l Exposure time: 48 h Test Type: static test EC50 (Crangon crangon (shrimp)): > 1.000 mg/l Exposure time: 96 h Test Type: semi-static test NOEC (Daphnia magna (Water flea)): > 0,5 mg/l Exposure time: 22 d |
| Toxicity to algae | : (Pseudokirchneriella subcapitata (microalgae)): > 969 mg/l Exposure time: 96 h Method: OECD Test Guideline 201 (Selenastrum capricornutum): 1.000 mg/l Exposure time: 72 h EC50 (Skeletonema costatum (marine diatom)): 6.999 mg/l Exposure time: 72 h |
| Toxicity to bacteria | : EC10 (Pseudomonas putida): 4.168 mg/l Exposure time: 18 h Test Type: Growth inhibition EC50 (No data available): > 100 mg/l |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC: 12 mg/l Species: Daphnia magna (Water flea) NOEC: > 0,5 mg/l Exposure time: 22 d Species: Daphnia magna (Water flea) Lowest Observed Effect Concentration: > 0,5 mg/l Exposure time: 22 d Species: Daphnia magna (Water flea) |

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:

tetrapotassium pyrophosphate



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7320-34-5:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Alcohols, C6-12, ethoxylated (5 EO)

68439-45-2:

Biodegradability : Remarks: The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride

1554325-20-0:

Biodegradability : Result: rapidly biodegradable
Method: OECD 301 D

sodium hydroxide

1310-73-2:

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

(2-methoxymethylethoxy)propanol

34590-94-8:

Biodegradability : Biodegradation: > 70 %
Exposure time: 28 d
Method: OECD 301 E

Biodegradation: 75 %
Exposure time: 28 d
Method: OECD 301 F

Biodegradation: 93 %
Exposure time: 13 d
Method: OECD 302 B

12.3 Bioaccumulative potential

Components:

tetrapotassium pyrophosphate

7320-34-5:

Bioaccumulation : Remarks: Does not bioaccumulate.

Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride

1554325-20-0:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

sodium hydroxide

1310-73-2:

Bioaccumulation : Species: Fish
Remarks: No bioaccumulation is to be expected (log Pow <= 4).



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(2-methoxymethylethoxy)propanol

34590-94-8:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: 1,01

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

Components:

Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride

1554325-20-0:

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

(2-methoxymethylethoxy)propanol

34590-94-8:

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.



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Waste Code

European Waste Catalogue
20 01 29*

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1 UN number

ADR : 3266
IMDG : 3266
IATA : 3266

14.2 Proper shipping name

ADR : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(Sodium metasilicate, pentahydrate)
IMDG : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(Sodium metasilicate, pentahydrate)
IATA : Corrosive liquid, basic, inorganic, n.o.s.
(Sodium metasilicate, pentahydrate)

14.3 Transport hazard class

ADR : 8
IMDG : 8
IATA : 8

14.4 Packing group

ADR
Classification Code : C5
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
Packing instruction (cargo aircraft) : 855
Packing instruction (LQ) : Y840
Packaging group : II
Labels : 8

14.5 Environmental hazards

ADR
Environmentally hazardous : no

IMDG
Marine pollutant : no
IATA



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Environmentally hazardous : no

14.6 Special precautions for user

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

- Seveso III: Directive 2012/18/EU : Not applicable
of the European Parliament and of
the Council on the control of
major-accident hazards involving
dangerous substances.
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: Not applicable
: Carcinogenic substances: Not applicable
: Mutagenic: Not applicable
: Toxic to reproduction: Not applicable
- Volatile organic compounds : Percent volatile: 3,01 %
(VOC) content 313,77 g/l
VOC content excluding water
- Volatile organic compounds : Percent volatile: 3,01 %
(VOC) content 31,65 g/l
VOC content valid only for coating materials used on wood surfaces
- according to Detergents : <5% Phosphates, Cationic surfactants, Non-ionic surfactants,
Regulation EC 648/2004 Perfumes, AMYL CINNAMAL, LIMONENE
- Diğer kurallar : 26 Aralık 2008 tarihli,27092 mükerrer sayılı," T.C. Çevre ve Orman
Bakanlığı Tehlikeli Maddeler ve Müstahzarlara İlişkin Güvenlik Bilgi
Formlarının Hazırlanması ve Dağıtılması Hakkında Yönetmeliği " ne
uygun düzenlenmiştir.
26 Aralık 2008 27092 (mükerrer) sayılı Tehlikeli Maddelerin ve
Müstahzarların Sınıflandırılması Ambalajlanması ve Etiketlenmesi
Hakkında Yönetmelik hükümlerine göre hazırlanmıştır.

15.2 Chemical safety assessment

There is no data available for this product.

SECTION 16: Other information

Full text of H-Statements



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| | |
|------|--|
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

Further information

| | | |
|---------------------------|------|------------------------|
| Classification procedure: | H290 | On basis of test data. |
| | H314 | On basis of test data. |

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 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; 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.



Werner & Mertz
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