

Ardrox 6025

Version: 4.1

Revision Date 18.07.2013

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

1.1 Product identifier

Trade name : Ardrox 6025

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

Use of the Sub- : Cleaning agent
stance/Mixture
Recommended restrictions : None known.
on use

1.3 Details of the supplier of the safety data sheet

Company : Chemetall Ltd
Denbigh Road
Bletchley Milton Keynes MK1 1PB
Telephone : 01908 649333
Telefax : 01908 373939

Contact person product safety
Telephone : +49(0)6971652832
E-mail address : msds.de@chemetall.com

1.4 Emergency telephone number

Emergency telephone : 01908 649333
number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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

Classification (67/548/EEC, 1999/45/EC)

Corrosive R34: Causes burns.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P262 Do not get in eyes, on skin, or on clothing.
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): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308
P310 IF exposed or concerned: Immediately call a POISON CENTER or doctor/ physician.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling:

EUH208 Contains: Benzothiazole-2-thiol May produce an allergic reaction.

Labelling according to EC Directives (1999/45/EC)

Hazard pictograms :



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| | | |
|------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Corrosive | |
| R-phrases(s) | : R34 | Causes burns. |
| S-phrases(s) | : S23 S24/25 S26 | Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| | S36/37/39 | Wear suitable protective clothing, gloves and eye/face protection. |
| | S45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| | S60 | This material and its container must be disposed of as hazardous waste. |
| Detergents Regulation EC 907/2006 | : Anionic surfactants less than 5 % | |
| Sensitising components | : Benzothiazole-2-thiol May produce an allergic reaction. | |

2.3 Other hazards

Classification "corrosive" due to the extreme pH value.

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Chemical nature : Aqueous solution of alkali salts and surfactants.

Hazardous components

| Chemical Name | CAS-No. EC-No. Registration number | Classification (67/548/EEC) | Classification (REGULATION (EC) No 1272/2008) | Concentration [%] |
|----------------------------------|------------------------------------------|--------------------------------|--------------------------------------------------------|----------------------|
| Benzenesulfonic acid, Na-salt | 127184-52-5 | Xn; R22 | Acute Tox. 4; H302 | >= 2.5 - < 10 |

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| | | | | |
|--------------------------------------|--------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Sodium xylene sulpho- nate | 1300-72-7 215-090-9 | Xi; R36 | Eye Irrit. 2; H319 | >= 1 - < 2.5 |
| 2-Butoxyethanol | 111-76-2 203-905-0 01-2119475108-36 | Xn; R20/21/22 Xi; R36/38 | Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315 | >= 1 - < 2.5 |
| Potassium silicate | 1312-76-1 215-199-1 01-2119456888-17 | Xi; R36/38 | Eye Irrit. 2; H319 Skin Irrit. 2; H315 | >= 1 - < 2.5 |
| Trisodium phosphate dodecahydrate | 10101-89-0 01-2119489800-32 | Xi; R36/37/38 | Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 | >= 1 - < 2.5 |
| Trisodium- nitrilotriacetate | 5064-31-3 225-768-6 01-2119519239-36 | Carc.Cat.3; R40 Xn; R22 Xi; R36 | Carc. 2; H351 Acute Tox. 4; H302 Eye Irrit. 2; H319 | >= 0.1 - < 1 |
| Benzothiazole-2-thiol | 149-30-4 205-736-8 | R43 | Skin Sens. 1; H317 | >= 0.1 - < 0.25 |

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| | | | | |
|--|--|------------|-------------------------|--|
| | | N; R50-R53 | Aquatic Chronic 1; H410 | |
|--|--|------------|-------------------------|--|

| WEL substance : | | | | |
|-------------------------------|---------------------------------------------|--|----------------------------------------------------------------------------------|--------------|
| 2-(3-Methoxyproxy)propan-1-ol | 34590-94-8 252-104-2 01-2119450011-60 | | Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. | >= 1 - < 2.5 |

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.
For the full text of the Notas mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : First-aid crew: Ensure self-protection.
Move out of dangerous area.
Take off contaminated clothing and shoes immediately.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and plenty of water.
Call a physician immediately.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids.
Call a physician immediately.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : corrosive effects
If swallowed, severe burns in the oral cavity and throat as well as danger of perforation of the digestive tract and stomach.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

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For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO₂)
Dry powder
Alcohol-resistant foam
Water spray

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : May form toxic gases on heating or in case of fire.
Carbon monoxide
Carbon dioxide (CO₂)
Sulphur oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Further information : Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.
Wear personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
Inform the relevant authorities if it enters sewers, aquatic environment or soil.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Ensure adequate ventilation.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

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6.4 Reference to other sections

See chapter 8 and 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
 Have eye wash bottle or eye rinse ready at the work place.

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

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place.
 Store in a place accessible by authorized persons only.

Further information on storage conditions : Protect from frost.

Storage period : 36 month

Storage temperature : > 0 °C

7.3 Specific end uses

Specific use(s) : Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Components | CAS-No. | Value | Control parameters | Update | Basis |
|---------------------|-----------------------------------------------------------------------------------------|-------|---------------------------------|------------|------------|
| 2-Butoxy-ethanol | 111-76-2 | TWA | 20 ppm 98 mg/m ³ | 2000-06-16 | 2000/39/EC |
| Further information | : skin: Identifies the possibility of significant uptake through the skin Indicative | | | | |
| | 111-76-2 | STEL | 50 ppm 246 mg/m ³ | 2000-06-16 | 2000/39/EC |

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| | | | | | | |
|---------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------|------------|------------|
| Further information | : | skin: Identifies the possibility of significant uptake through the skin Indicative | | | | |
| | | 111-76-2 | TWA | 25 ppm | 2005-04-06 | GB EH40 |
| Further information | : | Sk: Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | | |
| | | 111-76-2 | STEL | 50 ppm | 2005-04-06 | GB EH40 |
| Further information | : | Sk: Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | | |
| 2-(3-Methoxypropoxy)propan-1-ol | | 34590-94-8 | TWA | 50 ppm 308 mg/m ³ | 2000-06-16 | 2000/39/EC |
| Further information | : | skin: Identifies the possibility of significant uptake through the skin Indicative | | | | |
| | | 34590-94-8 | TWA | 50 ppm 308 mg/m ³ | 2005-04-06 | GB EH40 |
| Further information | : | Sk: Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used | | | | |

DNEL/DMEL

Trisodium-nitritotriacetate : End Use: DNEL, Workers
Exposure routes: Inhalation
Potential health effects: Short-term exposure, Systemic effects
Value: 5.25 mg/m³

End Use: DNEL, Workers
Exposure routes: Inhalation
Potential health effects: Long-term exposure, Systemic effects
Value: 3.5 mg/m³

Benzothiazole-2-thiol : End Use: Workers, DNEL
Exposure routes: Inhalation
Potential health effects: Acute systemic effects
Value: 70.4 mg/m³

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End Use: DNEL, Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 8.8 mg/m³

2-(3-Methoxypropoxy)propan-1-ol : End Use: DNEL, Industrial use, Workers
Exposure routes: Skin contact
Potential health effects: Chronic effects, Systemic effects
Value: 65 mg/kg bw/d

End Use: DNEL, Industrial use, Workers
Exposure routes: Inhalation
Potential health effects: Chronic effects, Systemic effects
Value: 310 mg/m³

PNEC
Trisodium-nitrilotriacetate : Fresh water
Value: 0.93 mg/l

Marine water
Value: 0.093 mg/l

Behaviour in waste water treatment plants
Value: 540 mg/l

Fresh water sediment
Value: 3.64 mg/kg

Marine sediment
Value: 0.364 mg/kg

Soil
Value: 0.182 mg/kg

Benzothiazole-2-thiol : Fresh water
Value: 0.0041 mg/l

Marine water
Value: 0.00041 mg/l

Behaviour in waste water treatment plants
Value: 0.3 mg/l

Fresh water sediment
Value: 0.0321 mg/kg

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|---------------------------------|---------------------------------------------------------------|
| | Marine sediment Value: 0.00321 mg/kg |
| | Soil Value: 0.0239 mg/kg |
| 2-(3-Methoxypropoxy)propan-1-ol | : Fresh water Value: 19 mg/l |
| | Marine water Value: 1.9 mg/l |
| | Behaviour in waste water treatment plants Value: 4168 mg/l |
| | Fresh water sediment Value: 70.2 mg/kg |
| | Marine sediment Value: 7.02 mg/kg |
| | Soil Value: 2.74 mg/kg |

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

| | |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Respiratory protection | : In case of insufficient ventilation wear suitable respiratory equipment. Recommended Filter type: A-P2 |
| Hand protection | : Neoprene gloves Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. |
| Eye protection | : Eye protection (EN 166) Tightly fitting safety goggles Have eye wash bottle or eye rinse ready at the work place. |
| Skin and body protection | : Chemical resistant protective clothing according to DIN EN |

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13034 (Type 6)

Hygiene measures : Take off contaminated clothing and shoes immediately.
Keep away from food, drink and animal feedingstuffs.
Wash hands before breaks and immediately after handling the product.
Avoid contact with skin and eyes.
Do not breathe vapour.
Do not breathe spray.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
Inform the relevant authorities if it enters sewers, aquatic environment or soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid
Colour : green
Odour : characteristic
Flash point : not applicable
pH : 12.3
at
20 °C
(undiluted)
Solidification temperature/range : ca. -2 °C
Boiling point/boiling range : ca. 100 °C
Density : 1.055 g/cm³
at 20 °C
Water solubility : soluble

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Viscosity, dynamic : 5 mPa*s
at 20 °C

9.2 Other information

Explosivity : no explosion risk

Directive 1999/13/EC on the
limitation of emissions of vol-
atile organic compounds : Value: 51.3 g/l

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost.

10.5 Incompatible materials

Materials to avoid : Strong acids

10.6 Hazardous decomposition products

Risk of decomposition. : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

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| | |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity Sodium xylene sulphonate | : LD50: > 2,000 mg/kg Species: rat |
| 2-Butoxyethanol | : LD50: 1,746 mg/kg Species: rat |
| Trisodium phosphate dodec- ahydrate | : LD50: > 2,000 mg/kg Species: rat |
| Trisodium-nitilotriacetate | : LD50: 1,000 - 2,000 mg/kg Species: rat Method: Calculation method |
| Benzothiazole-2-thiol | : LD50: > 2,000.0 mg/kg Species: rat |
| 2-(3- Methoxypropoxy)propan-1-ol | : LD50: 5,135 mg/kg Species: rat |
| Acute inhalation toxicity | : Acute toxicity estimate: > 20 mg/l vapour Exposure time: 4 h Method: Calculation method |
| Acute inhalation toxicity Trisodium-nitilotriacetate | : LC50: > 5 mg/l Exposure time: 4 h Species: rat Information taken from reference works and the literature. |
| Acute dermal toxicity | : Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method |
| Acute dermal toxicity Sodium xylene sulphonate | : LD50: > 2,000 mg/kg Species: rabbit |
| 2-Butoxyethanol | : LD50: > 2,000 mg/kg Species: guinea pig Method: OECD Test Guideline 402 |
| Trisodium-nitilotriacetate | : LD50: > 10,000 mg/kg Species: rabbit |

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Benzothiazole-2-thiol : LD50: > 2,000.0 mg/kg
Species: rabbit

2-(3-Methoxypropoxy)propan-1-ol : LD50: 9,510 mg/kg
Species: rabbit

Skin corrosion/irritation

Skin irritation : Causes severe burns.

Serious eye damage/eye irritation

Eye irritation : Causes serious eye damage.

Respiratory or skin sensitisation

Sensitisation : Contains one or more substance(s) classified as sensitising.

Germ cell mutagenicity

Remarks
Trisodium-nitrilotriacetate : Animal testing did not show any mutagenic effects.

Carcinogenicity

Remarks
Trisodium-nitrilotriacetate : Limited evidence of a carcinogenic effect.

Teratogenicity

Remarks
Trisodium-nitrilotriacetate : Animal testing did not show any effects on foetal development.

Reproductive toxicity

Remarks
Trisodium-nitrilotriacetate : Animal testing did not show any effects on fertility.

Toxicology Assessment

Acute effects : If swallowed, severe burns in the oral cavity and throat as well as danger of perforation of the digestive tract and stomach.

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SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicology studies for the product are not available.

Toxicity to fish

Sodium xylene sulphonate : LC50: > 1,000 mg/l
Exposure time: 96 h
Species: Fish

2-Butoxyethanol : LC50: 1,490 mg/l
Exposure time: 96 h
Species: Lepomis macrochirus (Bluegill sunfish)

Trisodium phosphate dodec-
ahydrate : LC0: 2,400 mg/l
Exposure time: 48 h
Species: Leuciscus idus (Golden orfe)

Trisodium-nitrilotriacetate : flow-through test LC50: > 100 mg/l
Exposure time: 96 h
Species: Pimephales promelas (Fathead minnow)
Information taken from reference works and the literature.

2-(3-
Methoxypropoxy)propan-1-ol : LC50: 10,000 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates

Sodium xylene sulphonate : static test EC50: > 1,000 mg/l
Exposure time: 48 h
Species: Daphnia

2-Butoxyethanol : EC50: 1,720 mg/l
Exposure time: 24 h
Species: Daphnia

Trisodium-nitrilotriacetate : EC50: 98 mg/l
Exposure time: 96 h
Species: Gammarus salinus (seawater shrimp)
Information taken from reference works and the literature.

2-(3-
Methoxypropoxy)propan-1-ol : LC50: 1,919 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

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NOEC: 0.5 mg/l
Exposure time: 22 d
Species: Daphnia magna (Water flea)

Toxicity to algae

Sodium xylene sulphonate : static test EC50: > 230 mg/l
Exposure time: 96 h
Species: Algae

ErC50: 310 mg/l
Exposure time: 72 h
Species: Algae

2-Butoxyethanol : Cell multiplication inhibition test EC0: 900 mg/l
Exposure time: 168 h
Species: Scenedesmus quadricauda (Green algae)

Trisodium-nitrilotriacetate : static test EC50: > 91.5 mg/l
Exposure time: 72 h
Species: Scenedesmus capricornutum (fresh water algae)
Method: Tested according to Directive 92/69/EEC.

Benzothiazole-2-thiol : EC50: 0.23 mg/l
Exposure time: 96 h
Species: Pseudokirchneriella subcapitata

2-(3-Methoxypropoxy)propan-1-ol : EC50: 1,000 mg/l
Exposure time: 72 h
Species: Selenastrum capricornutum (green algae)

Toxicity to bacteria

2-Butoxyethanol : EC0: 700 mg/l
Exposure time: 16 h
Species: Pseudomonas putida

Trisodium-nitrilotriacetate : EC50: 3,200 - 5,600 mg/l
Exposure time: 8 h
Species: .
Information taken from reference works and the literature.
Pseudomonas fluorescens

2-(3-Methoxypropoxy)propan-1-ol : Growth inhibition
EC10: 4,168 mg/l
Species: Pseudomonas putida

12.2 Persistence and degradability

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Biodegradability : The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.907/2006 on detergents.

Biodegradability
2-Butoxyethanol : 100 %
Testing period: 28 d
Readily biodegradable
Zahn-Wellens Test; EG 88/302

Trisodium-nitrilotriacetate : 90 - 100 %
Method: OECD Test Guideline 301B
rapidly biodegradable

12.3 Bioaccumulative potential

Bioaccumulation : Bioaccumulation is unlikely.

Bioaccumulation
Trisodium-nitrilotriacetate : Species: Brachydanio rerio (Zebra danio)
Exposure time: 96 h
Bioconcentration factor (BCF): < 3
Accumulation in aquatic organisms is unlikely.

12.4 Mobility in soil

Distribution among environmental compartments : no data available

12.5 Results of PBT and vPvB assessment

This mixture does not contain substances considered to be persistent, bioaccumulating and toxic (PBT)., This mixture does not contain substances considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

Additional ecological information : water endangering
Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
Even leakage of small amounts in the subsoil can contaminate drinking water.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : Dispose of in accordance with local regulations.
- Contaminated packaging : Dispose of as unused product.
- Waste Code : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

ADR

- UN number : 1719
UN proper shipping name : CAUSTIC ALKALI LIQUID, N.O.S. Potassium silicate
Transport hazard class(es) : 8
Packing group : III
Classification Code : C5
Hazard Identification Number : 80
Limited Quantity (LQ) Inner : 5.00 L
Packaging
Maximum quantity : 30.00 KG
Labels : 8
Tunnel restriction code : (E)
Environmentally hazardous : no

IATA

- UN number : 1719
Description of the goods : Caustic alkali liquid, n.o.s. Potassium silicate
Class : 8
Packing group : III
Labels : 8

IATA_C

- Packing instruction (cargo aircraft) : 856
Packing instruction (LQ) : Y841
Maximum quantity : 60.00 L
Environmentally hazardous : no

IATA_P

- Packing instruction (passenger aircraft) : 852
Packing instruction (LQ) : Y841

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Maximum quantity : 5.00 L
Environmentally hazardous : no

IMDG

UN number : 1719
Description of the goods : CAUSTIC ALKALI LIQUID, N.O.S. Potassium silicate
Class : 8
Packing group : III
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
Marine pollutant : no

RID

UN number : 1719
Description of the goods : CAUSTIC ALKALI LIQUID, N.O.S. Potassium silicate
Transport hazard class(es) : 8
Packing group : III
Classification Code : C5
Hazard Identification Number : 80
Labels : 8
Limited Quantity (LQ) Inner : 5.00 L
Packaging :
Maximum quantity : 30.00 KG

Environmentally hazardous : no

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Water contaminating class (Germany) : WGK 2 water endangering
VVVWS A4

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.
Regional or national implementations of GHS may not implement all hazard classes and categories.

15.2 Chemical Safety Assessment

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For a mixture it is not mandatory to include an exposure scenario in the material safety data sheet. The necessary safety - related information is stated in the first 16 sections.

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

| | |
|-----------|-----------------------------------------------------------------|
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| R22 | Harmful if swallowed. |
| R34 | Causes burns. |
| R36 | Irritating to eyes. |
| R36/37/38 | Irritating to eyes, respiratory system and skin. |
| R36/38 | Irritating to eyes and skin. |
| R40 | Limited evidence of a carcinogenic effect. |
| R43 | May cause sensitisation by skin contact. |
| R50 | Very toxic to aquatic organisms. |
| R53 | May cause long-term adverse effects in the aquatic environment. |

Full text of H-Statements referred to under sections 2 and 3.

| | |
|------|-------------------------------------------------------|
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Further information

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.