

Ardrox 6025

Version: 4.1

Revision Date 03.03.2015

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 : Cleaning agent
Substance/Mixture
Recommended restrictions : None known.
on use

1.3 Details of the supplier of the safety data sheet

Company : CHEMETALL ASIA PTE LTD
12 Loyang Crescent
Singapore 508980

Tel : (65) 6885-7900
Fax : (65) 6885-7929

E-mail : cm.asia@chemetall.com

1.4 Emergency telephone number

Emergency telephone : (65) 6885-7900
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.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

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

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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 IF exposed or concerned:

P310 Immediately call a POISON CENTER or doctor/ physician.

Disposal:

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

2.3 Other hazards

Classification "corrosive" due to the 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.	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Benzenesulfonic acid, Na-salt	127184-52-5	Acute Tox. 4; H302	>= 2.5 - < 10
Sodium xylene sulphonate	1300-72-7	Eye Irrit. 2; H319	>= 1 - < 2.5

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2-Butoxyethanol	111-76-2	Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315	$\geq 1 - < 2.5$
Potassium silicate	1312-76-1	Eye Irrit. 2; H319 Skin Irrit. 2; H315	$\geq 1 - < 2.5$
Trisodium phosphate dodecahydrate	10101-89-0	Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315	$\geq 1 - < 2.5$
Trisodium-nitilotriacetate	5064-31-3	Acute Tox. 4; H302 Eye Irrit. 2; H319	$\geq 0.1 - < 1$
Benzothiazole-2-thiol	149-30-4	Skin Sens. 1; H317	$\geq 0.1 - < 0.25$
2-(3-Methoxypropoxy)propan-1-ol	34590-94-8	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.	$\geq 1 - < 2.5$

For the full text of the H-Statements 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.

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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.
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 firefighting : 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.

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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).

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, < 40 °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-Butoxyethanol	111-76-2	TWA	20 ppm 98 mg/m ³	2000-06-16	2000/39/EC
	111-76-2	STEL	50 ppm 246 mg/m ³	2000-06-16	2000/39/EC

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2-(3-Methoxypropoxy)propan-1-ol	34590-94-8	TWA	50 ppm 308 mg/m ³	2000-06-16	2000/39/EC
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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 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.

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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 (approximate)	: 12.3 at 20 °C (undiluted)
Solidification temperature/range	: ca. -2 °C
Boiling point/boiling range	: ca. 100 °C
Density (approximate)	: 1.055 g/cm ³ +/- 0.02 at 20 °C
Water solubility	: soluble
Viscosity, dynamic	: 5 mPa*s at 20 °C

9.2 Other information

Explosivity	: no explosion risk
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SECTION 10: Stability and reactivity**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

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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

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.

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.

12.2 Persistence and degradability

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.

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

- UN number : 1719
- UN proper shipping name : CAUSTIC ALKALI LIQUID, N.O.S. Potassium silicate
- Transport hazard class(es) : 8
- Packing group : III

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).

- 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

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.

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SECTION 16: Other information

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.

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.