

**Ardrox 6376**

Version: 5.0

Revision Date 03.03.2015

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : Ardrox 6376

**1.2 Relevant identified uses of the substance or mixture and uses advised against**Use of the Substance/Mixture : Cleaning agent  
Recommended restrictions on use : None known.**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 number : (65) 6885-7900

**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  
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.

Hazardous components which must be listed on the label:

- 1310-58-3 Potassium Hydroxide

**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 [%]

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Ethoxylated Secondary Alcohols ( C11 - 15)	68131-40-8	Skin Irrit. 2; H315 Eye Dam. 1; H318 Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302	$\geq 2.5 - < 3$
Fatty acid diethanolamide	68603-42-9	Skin Irrit. 2; H315 Eye Dam. 1; H318	$\geq 1 - < 2.5$
Potassium Hydroxide	1310-58-3	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1A; H314	$\geq 1 - < 2$

## WEL substance :

2-(3-Methoxypropoxy)propan-1-ol	34590-94-8	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.	$\geq 2.5 - < 10$
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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.

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

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

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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 (CO<sub>2</sub>)  
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 (CO<sub>2</sub>)  
nitrogen oxides (NO<sub>x</sub>)

**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**

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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 : No special protective measures against fire required.  
 The product is not flammable.

**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.  
 Protect from frost.

Advice on common storage : Do not store near acids.

Storage temperature : >5 <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-(3-Methoxypropoxy)propan-1-ol	34590-94-8	TWA	50 ppm 308 mg/m <sup>3</sup>	2000-06-16	2000/39/EC
Potassium Hydroxide	1310-58-3	STEL	2 mg/m <sup>3</sup>	2005-04-06	GB EH40

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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  
Nitrile rubber  
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.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

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Appearance	: liquid
Colour	: light yellow
Odour	: ether-like
Flash point	: not applicable
Ignition temperature	: not applicable
pH (approximate)	: 12 (undiluted)
Freezing point	: -1 °C
Boiling point/boiling range	: 100 °C
Density (approximate)	: 1.04 g/cm <sup>3</sup> at 20 °C
Water solubility	: completely miscible
Viscosity, dynamic	: ca.10 mPa*s

### 9.2 Other information

Explosivity : no explosion risk

## 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

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Conditions to avoid : Protect from frost, heat and sunlight.

**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**Skin corrosion/irritation**

Skin irritation : Causes severe burns.

**Serious eye damage/eye irritation**

Eye irritation : Causes serious eye damage.

**Respiratory or skin sensitisation**

Sensitisation : no data available

**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.

**SECTION 12: Ecological information****12.1 Toxicity**

Ecotoxicology studies for the product are not available.

**12.2 Persistence and degradability**

Biodegradability : no data available

**12.3 Bioaccumulative potential**

Bioaccumulation : Bioaccumulation is unlikely.

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### 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 : slightly water endangering  
Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

## 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 : 1760  
UN proper shipping name : CORROSIVE LIQUID, N.O.S. Potassium Hydroxide  
Transport hazard class(es) : 8  
Packing group : II

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### 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.

### SECTION 16: Other information

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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.

#### 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.