

Ardrox 6092

Version: 4.1

Revision Date 02.01.2012

Print Date 03.01.2012

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Ardrox 6092

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

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)

Hazard pictograms :



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Signal word	:	Danger	
Hazard statements	:	H314	Causes severe skin burns and eye damage.
Precautionary statements	:	Prevention: P260 P262 P280	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Do not get in eyes, on skin, or on clothing. Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Response: P301 + P330 + P331 P303 + P361 + P353 P305 + P351 + P338	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P308 P315	IF exposed or concerned: Get immediate medical advice/ attention.
		Disposal: P501	Dispose of contents/ container to an approved waste disposal plant.

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

Hazard pictograms



Corrosive

R-phrases(s)	:	R34	Causes burns.
S-phrases(s)	:	S23 S24/25 S26	Do not breathe vapours, aerosols. 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).

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S60

This material and its container must be disposed of as hazardous waste.

Special labelling of certain mixtures : Ingredients according to Regulation (EC) No.648/2004 on detergents:
 Non ionic surfactants < 5%
 Anionic surfactants, < 5 %

2.3 Other hazards

The information required is contained in this Material Safety Data Sheet.

3. Composition/information on ingredients**3.1 Substances**

Identification: Ardrox 6092

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 [%]
3-Butoxypropan-2-ol,propylene glycol monobutyl ether	5131-66-8 225-878-4 01-2119475527-28	Xi; R36/38	Eye Irrit. 2; H319 Skin Irrit. 2; H315	>= 3 - < 5
Disodium metasilicate	6834-92-0 229-912-9 01-2119449811-37	C; R34 Xi; R37	Skin Corr. 1B; H314 STOT SE 3; H335	>= 1 - < 2.5
C12 - 15 Alcohol ethoxylate	68131-39-5	Xn; R22 Xi; R41 N; R50	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400	>= 1 - < 2.5

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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.

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

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.

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.

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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.

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.
Contenga el derrame. Absorba con material absorbente no combustible (p.ej., arena, tierra, diatomita, vermiculita) y tráselo a un contenedor adecuado para su eliminación según las normativas locales / nacionales (ver sección 13).
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

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.
Keep away from heat.
Protect from frost.

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Storage temperature : 10 - 35 °C

7.3 Specific end uses

Specific use(s) : Cleaning agent

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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 : Nitrile rubber
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

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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.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid
Colour : colourless
Odour : like soap
Flash point : not applicable
pH : 12.7
(undiluted)
Melting point/range : -1 °C
Boiling point/boiling range : 99 °C
Density : 1.02 g/cm³
at 20 °C
Water solubility : completely miscible
Viscosity, dynamic : ca.5 mPa*s
at 23 °C

9.2 Other information

Explosivity : no data available

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 oxidizing agents

10.6 Hazardous decomposition products

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

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : Acute toxicity estimate: 50,000 mg/kg
Method: Calculation method

Acute oral toxicity
3-Butoxypropan-2-
ol,propylene glycol monobu-
tyl ether : LD50: 3,300 mg/kg
Species: rat

Disodium metasilicate : LD50: 1,153.0 mg/kg
Species: rat

C12 - 15 Alcohol ethoxylate : LD50: > 2,000 mg/kg
Species: rat

Acute inhalation toxicity
C12 - 15 Alcohol ethoxylate : LC50/inhalation/4h/rat.: > 5 mg/l

Acute dermal toxicity
3-Butoxypropan-2-
ol,propylene glycol monobu-
tyl ether : LD50: > 2,000 mg/kg
Species: rat

C12 - 15 Alcohol ethoxylate : LD50: > 2,000 mg/kg
Species: rat

Skin corrosion/irritation

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Skin irritation : Causes severe burns.

Serious eye damage/eye irritation

Eye irritation : Causes serious eye damage.

Respiratory or skin sensitization

Sensitisation : no data available

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

12. Ecological information

12.1 Toxicity

Ecotoxicology studies for the product are not available.

Toxicity to fish

3-Butoxypropan-2-ol,propylene glycol monobutyl ether : LC50: > 100 mg/l
Exposure time: 96 h
Species: Pimephales promelas (Fathead minnow)

C12 - 15 Alcohol ethoxylate : LC50: 1 - 10 mg/l

Toxicity to daphnia and other aquatic invertebrates.

3-Butoxypropan-2-ol,propylene glycol monobutyl ether : EC50: > 1,000 mg/l
Species: Daphnia

C12 - 15 Alcohol ethoxylate : EC50: < 1 mg/l
Species: Daphnia

Toxicity to algae

C12 - 15 Alcohol ethoxylate : EC50: < 1 mg/l

12.2 Persistence and degradability

Biodegradability : no data available

12.3 Bioaccumulative potential

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Bioaccumulation : no data available

12.4 Mobility in soil

Distribution among environmental compartments : no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

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

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.

14. Transport information

ADR

UN number : 3266
UN proper shipping name : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., Sodium Metasilicate
Transport hazard class(es) : 8
Packing group : II
Classification Code : C5
Hazard identification No : 80
Packing instruction (LQ) : LQ22
Labels : 8
Tunnel restriction code : (E),
Environmentally hazardous : no

IATA

UN number : 3266
Description of the goods : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., Sodium Metasilicate
Class : 8
Packing group : II

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Labels	: 8
Packing instruction (cargo aircraft)	: 812
IATA_C	
Environmentally hazardous	: no
Packing instruction (passenger aircraft)	: 808
IATA_P	
Environmentally hazardous	: no
IMDG	
UN number	: 3266
Description of the goods	: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., Sodium Metasilicate
Class	: 8
Packing group	: II
Labels	: 8
EmS Number 1	: F-A
EmS Number 2	: S-B
Marine pollutant	: no
RID	
UN number	: 3266
Description of the goods	: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., Sodium Metasilicate
Transport hazard class(es)	: 8
Packing group	: II
Classification Code	: C5
Hazard identification No	: 80
Labels	: 8
Packing instruction (LQ)	: LQ22
Environmentally hazardous	: no

15. Regulatory information

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

Candidate List of Substances of Very High Concern for Authorisation	: This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
Water contaminating class (Germany)	: WGK 1 slightly water endangering VVWS 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.

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15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

16. Other information

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

R22	Harmful if swallowed.
R34	Causes burns.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.

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

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.
H400	Very toxic to aquatic life.

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.