

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Chemetall

Ardrox 970P25E

Version 4.2

Revision Date 28.07.2011

Print Date 28.07.2011

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

1.1 Product identifier

Trade name : Ardrox 970P25E

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

Use of the Sub- : Penetrative liquid, fluorescent.
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)

Serious eye damage, Category 1 H318: Causes serious eye damage.
Skin irritation, Category 2 H315: Causes skin irritation.

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

Irritant R38: Irritating to skin.
R41: Risk of serious damage to eyes.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Ardrox 970P25E

Version 4.2

Revision Date 28.07.2011

Print Date 28.07.2011

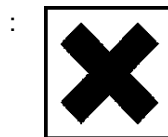
Signal word	:	Danger	
Hazard statements	:	H315 H318	Causes skin irritation. Causes serious eye damage.
Precautionary statements	:	Prevention: P260 P262 P280 Response: P302 + P352 P305 + P351 + P338 P308 + P313 Disposal: P501	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Do not get in eyes, on skin, or on clothing. Wear protective gloves/ eye protection/ face protection. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/ attention. Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

- 68131-40-8 Ethoxylated Secondary Alcohols (C11 - 15)

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

Hazard pictograms



Irritant

R-phrases(s)	:	R38 R41	Irritating to skin. Risk of serious damage to eyes.
S-phrases(s)	:	S23 S24/25 S26 S37/39	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. Wear suitable gloves and eye/face protection.

Ardrox 970P25E

Version 4.2

Revision Date 28.07.2011

Print Date 28.07.2011

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 970P25E

3.2 Mixtures

Chemical nature : Reagent

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Alcohol ethoxylate (C11-C15)	68131-40-8	Xi; R36/38	Eye Irrit. 2; H319 Skin Irrit. 2; H315	>= 65 - < 80
Ethoxylated Secondary Alcohols (C11 - 15)	68131-40-8	Xn; R20/21/22- R38-R41	Skin Irrit. 2; H315 Eye Dam. 1; H318 Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302	>= 20 - < 25

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.

Ardrox 970P25E

Version 4.2

Revision Date 28.07.2011

Print Date 28.07.2011

- 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.
If symptoms persist, call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids.
Consult a physician.
- If swallowed : Rinse mouth with water.
Do NOT induce vomiting.
Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Breathing difficulties
- Risks : irritant 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. Fire-fighting 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)

5.3 Advice for firefighters

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

Ardrox 970P25E

Version 4.2

Revision Date 28.07.2011

Print Date 28.07.2011

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

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

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 : Keep away from sources of ignition - No smoking.
Normal measures for preventive fire protection.
Take precautionary measures against static discharges.

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 at temperatures above 0°C.

Storage temperature : 10 - 40 °C

7.3 Specific end uses

Specific use(s) : Penetrative liquid, fluorescent.

8. Exposure controls/personal protection

8.1 Control parameters

Ardrox 970P25E

Version 4.2

Revision Date 28.07.2011

Print Date 28.07.2011

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 : Neoprene gloves
butyl-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

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.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid viscous
Colour : yellow
green

Ardrox 970P25E

Version 4.2

Revision Date 28.07.2011

Print Date 28.07.2011

Odour : characteristic

Flash point : > 93 °C

Density : 0.97 - 0.99 g/cm³
at 20 °C

Water solubility : dispersible

Viscosity, kinematic : 27 mm²/s
at 40 °C

9.2 Other information

Explosivity : no explosion risk

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, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents
Alkali metals
Alkaline earth metals
Finely divided aluminium

10.6 Hazardous decomposition products

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

Ardrox 970P25E

Version 4.2

Revision Date 28.07.2011

Print Date 28.07.2011

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : Acute toxicity estimate: 2,108.02 mg/kg
Method: Calculation method

Acute oral toxicity
Alcohol ethoxylate (C11-C15) : LD50: > 2,000 mg/kg
Species: rat

Acute inhalation toxicity : Acute toxicity estimate: 46.38 mg/l
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 4,637.65 mg/kg
Method: Calculation method

Skin corrosion/irritation

Skin irritation : Causes skin irritation.

Serious eye damage/eye irritation

Eye irritation : Causes serious eye damage.

Respiratory or skin sensitization

Sensitisation : no data available

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

Ardrox 970P25E

Version 4.2

Revision Date 28.07.2011

Print Date 28.07.2011

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 : 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
Not dangerous goods

IATA
Not dangerous goods

IMDG
Not dangerous goods

RID
Not dangerous goods

15. Regulatory information

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

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

SAFETY DATA SHEET

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Ardrox 970P25E

Version 4.2

Revision Date 28.07.2011

Print Date 28.07.2011

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

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

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.

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

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.

This data sheet contains changes from the previous version in section(s): 14