

**Ardrox 3968**

Version 3.0

Revision Date 07.07.2011

Print Date 14.07.2011

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

**1.1 Product identifier**

Trade name : Ardrox 3968

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

Use of the Sub- : Corrosion inhibitor  
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)**

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-ways.

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

Harmful R65: Harmful: may cause lung damage if swallowed.  
R66: Repeated exposure may cause skin dryness or cracking.

**2.2 Label elements**


**Labelling (REGULATION (EC) No 1272/2008)**

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Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H304 May be fatal if swallowed and enters airways.
	:	EUH066 Repeated exposure may cause skin dryness or cracking.
Precautionary statements	:	P403 Store in a well-ventilated place.
	:	<b>Prevention:</b>
	:	P210 Keep away from open flames/hot surfaces. - No smoking.
	:	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.
	:	<b>Response:</b>
	:	P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	:	P308 IF exposed or concerned:
	:	P315 Get immediate medical advice/ attention.
	:	<b>Disposal:</b>
	:	P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

- 64742-48-9 Naphtha (petroleum), hydrotreated heavy

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

Hazard pictograms : 

Harmful

R-phrases) : R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking.

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S-phrase(s) : S 9 Keep container in a well-ventilated place.  
 S16 Keep away from sources of ignition - No smoking.  
 S23 Do not breathe gas/fumes/vapour/spray.  
 S24/25 Avoid contact with skin and eyes.  
 S37/39 Wear suitable gloves and eye/face protection.  
 S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Hazardous components which must be listed on the label:

- 64742-48-9 Naphtha (petroleum), hydrotreated heavy; Low boiling point thermally cracked naphtha

**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 3968

**3.2 Mixtures**

Chemical nature : Mixture of organic solvents.

**Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Naphtha (petroleum), hydrotreated heavy	64742-48-9 265-150-3	Xn; R65  R66  Nota H, Nota P, Nota L	Asp. Tox. 1; H304	>= 65 - < 80
3-Butoxypropan-2-ol,propylene glycol monobutyl ether	5131-66-8 225-878-4	Xi; R36/38	Eye Irrit. 2; H319  Skin Irrit. 2; H315	>= 2.5 - < 10

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.

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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.  
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 : No information available.
- Risks : Risk of serious damage to the lungs (by aspiration).

**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 (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 fire fighting : May form toxic gases on heating or in case of fire.  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

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**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.

**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.  
Vapours may form explosive mixtures with air.

**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.  
Protect from direct sunlight.  
Storage temperature : < 40 °C

**7.3 Specific end uses**

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Specific use(s) : Corrosion inhibitor

### 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  
Rubber 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

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.

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**9. Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Appearance	: liquid
Colour	: amber
Odour	: hydrocarbon-like
Flash point	: 64 °C
Boiling point/boiling range	: > 150 °C
Density	: 0.81 g/cm <sup>3</sup> at 20 °C
Water solubility	: practically insoluble
Viscosity, kinematic	: < 7 mm <sup>2</sup> /s at 40 °C

**9.2 Other information**

Explosivity : Vapours may form explosive mixture with air.

**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 : Keep away from open flames, hot surfaces and sources of ignition.

**10.5 Incompatible materials**

Materials to avoid : Strong oxidizing agents

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### 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  
Naphtha (petroleum), hydro-  
drotreated heavy : LD50: > 2,000 mg/kg  
Species: rat

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

Acute dermal toxicity  
Naphtha (petroleum), hydro-  
drotreated heavy : LD50: > 2,000 mg/kg  
Species: rabbit

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

#### Skin corrosion/irritation

Skin irritation : May cause skin irritation in susceptible persons.

#### Serious eye damage/eye irritation

Eye irritation : May cause eye irritation with susceptible persons.

#### Respiratory or skin sensitization

Sensitisation : no data available

**Human experience** : Repeated exposure may cause skin dryness or cracking.

#### Aspiration hazard

Aspiration toxicity : May be fatal if swallowed and enters airways.



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**12. Ecological information**

**12.1 Toxicity**

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

Toxicity to daphnia and other aquatic invertebrates.  
3-Butoxypropan-2-ol,propylene glycol monobutyl ether : EC50: > 1,000 mg/l  
Species: Daphnia

**12.2 Persistence and degradability**

Biodegradability : no data available

**12.3 Bioaccumulative potential**

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.  
Do not allow material to contaminate ground water system.

**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.

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**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 1 slightly water endangering  
VWVWS 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**

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**

R36/38 Irritating to eyes and skin.  
R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking.

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

EUH066 Repeated exposure may cause skin dryness or cracking.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

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### Full text of Notas referred to under section 3

- Nota H                      The classification and label shown for this substance applies to the dangerous property(ies) indicated by the risk phrase(s) in combination with the category(ies) of danger shown. The manufacturers, importers and downstream users of this substance shall be obliged to carry out an investigation to make themselves aware of the relevant and accessible data which exists for all other properties to classify and label the substance. The final label shall follow the requirements of section 7 of Annex VI of this Directive.
- Nota L                      The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346. This note applies only to certain complex oil derived substances in Annex I.
- Nota P                      The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7). When the substance is classified as a carcinogen or mutagen, Note E shall also apply. When the substance is not classified as a carcinogen or mutagen at least the S-phrases (2-)23-24-62 shall apply. This note applies only to certain complex oil-derived substances in Annex I.

### 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.