

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Chemetall

Ardrox 5503

Version 4.1

Revision Date 12.10.2010

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

1.1 Product identifier

Trade name : Ardrox 5503

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

Use of the Sub-
stance/Mixture : Cleaning agent

1.3 Details of the supplier of the safety data sheet

Company : Chemetall plc
Denbigh Road
Bletchley Milton Keynes MK1 1PB

Lead Organisation :
Contact person :
Telephone : 01908 649333
Telefax : 01908 373939

Product safety :
Telephone : +49(0)6971652832
E-mail address : msds.de@chemetall.com

1.4 Emergency telephone number

Emergency telephone
number : 01908 649333

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 airways.

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	:	P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
		Prevention:	
		P262	Do not get in eyes, on skin, or on clothing.
		P280	Wear protective gloves/ eye protection/ face protection.
		Response:	
		P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
		P315	Get immediate medical advice/ attention.

Hazardous components which must be listed on the label:

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

Labelling according to EC Directives (67/548/EEC)

Hazard pictograms	:		
		Harmful	
R-phrase(s)	:	R65	Harmful: may cause lung damage if swallowed.
		R66	Repeated exposure may cause skin dryness or cracking.
S-phrase(s)	:	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.
		S60	This material and its container must be disposed of as hazardous waste.
		S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this

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container or label.

Hazardous components which must be listed on the label:

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

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 5503

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	<= 100

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.
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 : Clean mouth with water and drink afterwards plenty of water.

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Do NOT induce vomiting.
If swallowed, seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Nausea
Headache
Dizziness

Risks : Risk of serious damage to the lungs (by aspiration).

4.3 Indication of 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 Precautions for fire-fighters

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.

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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.
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 dry, cool and well-ventilated place.
Keep away from heat.

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.
Electrical equipment should be protected to the appropriate standard.

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Personal protective equipment

- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
Recommended Filter type:
A-P2
- Hand protection : Nitrile rubber
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 : 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.
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 : mild
- Flash point : 63 °C
Method: ASTM D 93
- Ignition temperature : > 200 °C

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Lower explosion limit	: 0.7 %(V)
Upper explosion limit	: 5.3 %(V)
Autoignition temperature	: 335 °C
Melting point/range	: < 0 °C
Boiling point/boiling range	: > 177 °C
Density	: 0.773 g/cm ³ at 20 °C
Water solubility	: < 0.1 g/L practically insoluble
Viscosity, kinematic	: 1.26 mm ² /s at 40 °C Method: ASTM D 445

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 : Extremes of temperature and direct sunlight.
Keep away from open flames, hot surfaces and sources of ignition.

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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
Naphtha (petroleum), hydrotreated heavy : LD50: > 2,000 mg/kg
Species: rat

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

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., Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness., Inhalation of vapour irritates the respiratory tract., May cause headache and dizziness.

Further information : Harmful: may cause lung damage if swallowed.

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12. Ecological information

12.1 Toxicity

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 Key Number : 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

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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
VVVWS 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

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.

H304 May be fatal if swallowed and enters airways.

Full text of Notas referred to under section 3

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- 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.