

Ardrox 3140

Version: 5.0

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Ardrox 3140

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.
Eye irritation, Category 2 H319: Causes serious eye irritation.
Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-
ways.

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

Flammable R10: Flammable.
Irritant R36: Irritating to eyes.
R66: Repeated exposure may cause skin dryness
or cracking.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H319 Causes serious eye irritation.
	:	EUH066 Repeated exposure may cause skin dryness or cracking.
Precautionary statements	:	Prevention: P210 Keep away from heat/sparks/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. Response: P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. 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 IF exposed or concerned: P310 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:

- 64742-48-9 Naphtha (petroleum), hydrotreated heavy (benzene < 0,1 %)

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

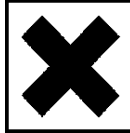
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Hazard pictograms :



Irritant

R-phrases(s) :

R10
R36
R66

Flammable.
Irritating to eyes.
Repeated exposure may cause skin dryness or cracking.

S-phrases(s) :

S 9
S16

S23
S24/25
S37/39

Keep container in a well-ventilated place.
Keep away from sources of ignition - No smoking.
Do not breathe gas/fumes/vapour/spray.
Avoid contact with skin and eyes.
Wear suitable gloves and eye/face protection.

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

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 [%]
Paraffin waxes and Hydrocarbon waxes, oxidized, calcium salts	68476-81-3 270-701-6	Xi; R36	Eye Irrit. 2; H319	>= 25 - < 50
Naphtha (petroleum), hydrotreated heavy (benzene < 0,1 %)	64742-48-9 265-150-3 01-2119463258-33	R10 Xn; R65 R66	Asp. Tox. 1; H304 Flam. Liq. 3; H226	>= 25 - < 50

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		Nota H, Nota P		
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	919-857-5 01-2119463258-33	R10 Xn; R65 R66 R67 Nota H, Nota P	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H336	>= 2.5 - < 10
Benzenesulfonic acid, C20-48-alkyl derivs., sodium salts	68555-09-9 271-414-9	R53	Aquatic Chronic 4; H413	>= 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.

For the full text of the Notas 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.
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.

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Risks : Aspiration hazard.
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.

SECTION 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.
Carbon monoxide
Carbon dioxide (CO₂)
Sulphur oxides

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 : 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)

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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 : 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.
Store in a place accessible by authorized persons only.
Protect from direct sunlight.
Protect from frost.

Storage period : 36 month

Storage temperature : 15 - 30 °C

7.3 Specific end uses

Specific use(s) : Corrosion inhibitor

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL/DMEL

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics : End Use: DNEL, Industrial use, Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 208 mg/kg bw/d

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End Use: DNEL, Industrial use, Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 871 mg/m³

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.
Electrical equipment should be protected to the appropriate standard.
Use only explosion-proof equipment.

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 : 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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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: brown
Odour	: hydrocarbon-like
Flash point	: 45 °C
Boiling point/boiling range	: > 155 °C
Density	: 0.86 g/cm ³ at 20 °C
Water solubility	: practically insoluble
Viscosity, kinematic	: > 7 mm ² /S at 40 °C

9.2 Other information

Explosivity	: Vapours may form explosive mixture with air.
Directive 1999/13/EC on the limitation of emissions of volatile organic compounds	: Value: 387 g/l

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 : To avoid thermal decomposition, do not overheat.
Keep away from open flames, hot surfaces and sources of ignition.

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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Naphtha (petroleum), hydrotreated heavy (benzene < 0,1 %)
: LD50: > 5,000 mg/kg
Species: rat

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
: LD50: > 5,000 mg/kg
Species: rat
Method: OECD Test Guideline 401

Acute dermal toxicity

Naphtha (petroleum), hydrotreated heavy (benzene < 0,1 %)
: LD50: > 2,000 mg/kg
Species: rabbit

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
: LD50: > 5,000 mg/kg
Species: rabbit
Method: OECD Test Guideline 402

Skin corrosion/irritation

Skin irritation : May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Eye irritation : Causes serious eye irritation.

Respiratory or skin sensitisation

Sensitisation : no data available

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Teratogenicity
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics : Species: rat
Animal testing did not show any effects on foetal development.

Aspiration hazard

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

Toxicology Assessment

Repeated dose toxicity : Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicology studies for the product are not available.

Toxicity to fish
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics : Limit Test LC50: > 1,000 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics : Limit Test EC50: > 1,000 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

12.2 Persistence and degradability

Biodegradability : no data available

12.3 Bioaccumulative potential

Bioaccumulation : Bioaccumulation is unlikely.

12.4 Mobility in soil

Distribution among environ- : no data available

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mental compartments

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

ADR

UN number : 3295
UN proper shipping name : HYDROCARBONS, LIQUID, N.O.S., Naphtha (petroleum), hydrotreated heavy; Low boiling point thermally cracked naphtha
Transport hazard class(es) : 3
Packing group : III
Classification Code : F1
Hazard identification No : 30
Packing instruction (LQ) : LQ7
Limited Quantity (LQ) Inner : 5.00 L
Packaging
Labels : 3
Tunnel restriction code : (D/E)
Environmentally hazardous : yes

IATA

UN number : 3295
Description of the goods : HYDROCARBONS, LIQUID, N.O.S., Naphtha (petroleum), hydrotreated heavy; Low boiling point thermally cracked naph-

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Class : tha
: 3
Packing group : III
Labels : 3

IATA_C

Packing instruction (cargo aircraft) : 366
Environmentally hazardous : no

IATA_P

Packing instruction (passenger aircraft) : 355
Environmentally hazardous : no

IMDG

UN number : 3295
Description of the goods : HYDROCARBONS, LIQUID, N.O.S., Naphtha (petroleum), hydrotreated heavy; Low boiling point thermally cracked naphtha
Class : 3
Packing group : III
Labels : 3
EmS Number 1 : F-E
EmS Number 2 : S-D
Marine pollutant : yes

RID

UN number : 3295
Description of the goods : HYDROCARBONS, LIQUID, N.O.S., Naphtha (petroleum), hydrotreated heavy; Low boiling point thermally cracked naphtha
Transport hazard class(es) : 3
Packing group : III
Classification Code : F1
Hazard identification No : 30
Labels : 3
Packing instruction (LQ) : LQ7
Environmentally hazardous : yes

SECTION 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).

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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

For the lead substance(s) in the mixture, there is no exposure scenario available.

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 R-phrases referred to under sections 2 and 3

R10	Flammable.
R36	Irritating to eyes.
R53	May cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

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

EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H413	May cause long lasting harmful effects to aquatic life.

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 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.