

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ARDROX A 25

Version: 6.0

Revision Date 22.11.2012

Print Date 22.01.2015

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF NOHSC AUSTRALIA.
DANGEROUS GOOD

SECTION 1 Identification

1.1 Trade name

Trade name : ARDROX AV 25

1.2 Use of the Sub-stance/Mixture

Use of the Sub-stance/Mixture : Corrosion inhibitor

Recommended restrictions on use : None known.

1.3 Company

Company : CHEMETALL AUSTRALASIA PTY LTD
17 TURBO DRIVE
3153 BAYSWATER VIC
Contact person : Technical Manager
Telephone : 03 9729 6253 (BUSINESS HOURS)
Telefax : 03 9720 1711

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

1.4 Emergency telephone number

Emergency telephone number : 03 9720 0370 (AFTER HOURS)

SECTION 2 Hazards

2.1 Classification

Classification (EU AT) (EC) 012 2/2008

Flammable liquids, Category 3
Specific target organ toxicity - single exposure, Category 3, Central nervous system
H226: Flammable liquid and vapour.
H336: May cause drowsiness or dizziness.

Classification (EU AT) (EC) 012 2/2008

Flammable
R10: Flammable.
R66: Repeated exposure may cause skin dryness or cracking.
R67: Vapours may cause drowsiness and dizziness.

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S23 S24/25 S36/37/39	smoking. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection.
S60	This material and its container must be disposed of as hazardous waste.

2301 01 23

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

SECTION 2 Composition/information on ingredients

210 01 01
not applicable

220 01 01

Chemical nature : Mixture of organic solvents.

Major components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	919-857-5 01-2119463258-33	R10 Xn; R65 R66 R67 Note H, Note P	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H336	>= 50 - < 65
Naphtha (petroleum), hydrotreated heavy (benzene < 0,1 %)	64742-48-9 265-150-3 01-2119463258-33	R10 Xn; R65 R66 Note H, Note P	Asp. Tox. 1; H304 Flam. Liq. 3; H226	>= 2.5 - < 10
1-Propoxypropan-2-ol	1569-01-3 216-372-4 01-2119474443-37	R10	Flam. Liq. 3; H226 Eye Irrit. 2;	>= 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 Notes 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, acute and delayed

- Symptoms : May cause drowsiness or dizziness.

4.3 Indication of immediate medical attention and special care procedures

- Treatment : Treat symptomatically.
For specialist advice physicians should contact the Poisons Information Service.

SECTION 5 Fire and explosion 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 Specific hazards during fire

- Specific hazards during fire- : May form toxic gases on heating or in case of fire.

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fighting
Carbon monoxide
Carbon dioxide (CO₂)

5.2.2.1 Av e f o r r e f i t u s

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 Accidents and emergency

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 for 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 documents

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 and container requirements

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.

Storage temperature : 5 - 35 °C

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2.2.1 Specific use(s)

Specific use(s) : Corrosion inhibitor

3.1.1 Exposure scenarios

3.1.1.1 Occupational exposure

Contains no substances with occupational exposure limit values.

DNEL/DMEL

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

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

1-Propoxypropan-2-ol : End Use: DNEL, Industrial use, Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 9 mg/kg bw/d

End Use: DNEL, Industrial use, Workers
Exposure routes: Inhalation
Value: 217 mg/m3

PNEC

1-Propoxypropan-2-ol : Fresh water
Value: 0.1 mg/l

Marine water
Value: 0.01 mg/l

Fresh water sediment
Value: 0.386 mg/kg dry weight (d.w.)

Marine sediment
Value: 0.0386 mg/kg dry weight (d.w.)

Soil
Value: 0.0185 mg/kg

3.2 Exposure scenarios

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Enneerheres

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

Personaprovee prert

- 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.

Environmentalexposreent

- General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

Section 1: s ca n c e capropert

Information s p s ca n c e capropert

- Appearance : liquid
- Colour : beige
- Flash point : 40 °C
- Ignition temperature : > 200 °C

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SECTION 11 Toxicological information

11.1 Toxicological information

Acute toxicity

Acute oral toxicity

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

Naphtha (petroleum), hydrotreated heavy (benzene < 0,1 %): LD50: > 15,000 mg/kg
Species: rat

1-Propoxypropan-2-ol : LD50: 2,000 - 4,350 mg/kg
Species: rat

Acute dermal toxicity

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

Naphtha (petroleum), hydrotreated heavy (benzene < 0,1 %): LD50: > 3,160 mg/kg
Species: rabbit

1-Propoxypropan-2-ol : LD50: 3,600 - 4,500 mg/kg
Species: rabbit

Skin irritation

Skin irritation : May cause skin irritation in susceptible persons.

Eye irritation

Eye irritation : May cause eye irritation with susceptible persons.

Sensitisation

Sensitisation : no data available

Neurological effects : May cause drowsiness or dizziness.

Toxicological Assessment

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SECTION 12 Ecotoxicology

12.1 Toxicity

Ecotoxicology studies for the product are not available.

Toxicity to fish

1-Propoxypropan-2-ol : LC50: > 100 mg/l
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates

1-Propoxypropan-2-ol : LC50: 3,600 mg/l
Species: Daphnia magna (Water flea)

Toxicity to algae

1-Propoxypropan-2-ol : EC50: 1,466 mg/l
Species: Scenedesmus capricornutum (fresh water algae)

Toxicity to bacteria

1-Propoxypropan-2-ol : EC50: 3,800 mg/l
Exposure time: 16 h
Species: Bacteria

12.2 Persistence in the environment

Biodegradability : no data available

Biodegradability

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics : 80 % rapidly biodegradable

12.3 Bioaccumulation

Bioaccumulation : Bioaccumulation is unlikely.

12.4 Distribution

Distribution among environmental compartments : no data available

12.5 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).

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UN number : 1139
Description of the goods : COATING SOLUTION
Class : 3
Packing group : III
Labels : 3
EmS Number 1 : F-E
EmS Number 2 : S-E
Marine pollutant : no

1 D

UN number : 1139
Description of the goods : COATING SOLUTION
Transport hazard class(es) : 3
Packing group : III
Classification Code : F1
Hazard identification No : 33
Labels : 3
Packing instruction (LQ) : LQ7
Environmentally hazardous : no

SECTION 15 Information on the hazard

151 Candidate List of Substances of Very High Concern for Authorisation

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
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.

152 Characterisation 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

Further information on the substance

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- R10 Flammable.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

Further information

- 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.

Further information

- Note 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.
- Note 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.

Disclaimer

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.