

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Chemetall
expect more⁺

Ardrox 9813

Version 4.0

Revision Date 31.03.2011

Print Date 11.03.2014

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

1.1 Product identifier

Trade name : Ardrox 9813

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)

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

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

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Ardrox 9813

Version 4.0

Revision Date 31.03.2011

Print Date 11.03.2014

| | | |
|--------------------------|---|--|
| Signal word | : | Danger |
| Hazard statements | : | H304 May be fatal if swallowed and enters airways. |
| Precautionary statements | : | Response: P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P308 + P313 IF exposed or concerned: Get medical advice/ attention. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant. |

Hazardous components which must be listed on the label:

- 64742-46-7 Distillates (petroleum), hydrotreated middle; Gasoil - unspecified

Special labelling of certain mixtures : Safety data sheet available on request for professional users.

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 9813

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 [%] |
|--|--|--------------------------------|--|----------------------|
| Distillates (petroleum), hydrotreated middle; Gasoil - unspecified | 64742-46-7 265-148-2 | Xn; R65 Nota H, Nota N | Asp. Tox. 1; H304 | >= 25 - < 50 |
| 2-(heptadecenyl)-4,5- dihydro-1H-imidazole- | 27136-73-8 248-248-0 | Xn; R22 | Acute Tox. 4; H302 | >= 0.1 - < 0.25 |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Ardrox 9813

Version 4.0

Revision Date 31.03.2011

Print Date 11.03.2014

| | | | | |
|-----------|--|-------------------------|---|--|
| 1-ethanol | | Xi; R36/38 N; R50/53 | Eye Irrit. 2; H319 Skin Irrit. 2; H315 Aquatic Chronic 1; H410 | |
|-----------|--|-------------------------|---|--|

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 : Rinse mouth.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Ardrox 9813

Version 4.0

Revision Date 31.03.2011

Print Date 11.03.2014

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 : In the event of fire, cool tanks with water spray.

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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Ardrox 9813

Version 4.0

Revision Date 31.03.2011

Print Date 11.03.2014

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. |
| Further information on storage conditions | : Keep away from heat. |
| 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

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 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 | : Safety glasses with side-shields conforming to EN166 |
| Skin and body protection | : Chemical resistant protective clothing according to DIN EN 13034 (Type 6) |
| Hygiene measures | : Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of workday. |

Ardrox 9813

Version 4.0

Revision Date 31.03.2011

Print Date 11.03.2014

Avoid contact with the skin and the 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
Colour : yellow
Flash point : > 93 °C
Density : 0.90 g/cm³
at 20 °C
Water solubility : insoluble
Viscosity, kinematic : 7.7 mm²/s
at 40 °C

9.2 Other information

Explosivity : no data available

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

Ardrox 9813

Version 4.0

Revision Date 31.03.2011

Print Date 11.03.2014

ignition.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

Risk of decomposition. : No decomposition if used as directed.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity
2-(heptadecenyl)-4,5-
dihydro-1H-imidazole-1-
ethanol : LD50: 710 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

Aspiration hazard

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

12. Ecological information

12.1 Toxicity

Toxicity to fish
2-(heptadecenyl)-4,5-
dihydro-1H-imidazole-1-
ethanol : LC50: 0.33 mg/l
Exposure time: 96 h
Species: Brachydanio rerio (Zebra danio)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Ardrox 9813

Version 4.0

Revision Date 31.03.2011

Print Date 11.03.2014

Toxicity to daphnia and other aquatic invertebrates.
2-(heptadecenyl)-4,5- : EC50: 48 mg/l
dihydro-1H-imidazole-1-
ethanol

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 : water endangering
Do not allow material to contaminate ground water system.
Do not flush into surface water or sanitary sewer system.
: Ecotoxicology studies are not available.

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Ardrox 9813

Version 4.0

Revision Date 31.03.2011

Print Date 11.03.2014

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
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

R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.

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

H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Full text of Notas referred to under section 3

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Ardrox 9813

Version 4.0

Revision Date 31.03.2011

Print Date 11.03.2014

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 N

The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen. 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.