

Safety data sheet

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Chemetall (now part of BASF Group) Safety data sheet

Date / Revised: 12.12.2018

Product: **ARDROX 2106R**

Version: 1.0

(30720875/SDU_GEN_NZ/EN)

Date of print 27.12.2018

1. Substance/preparation and manufacturer/supplier identification

ARDROX 2106R

Manufacturer/supplier:

Chemetall (New Zealand) Ltd
664 Rosebank Road Avondale,
Auckland 1026
NEW ZEALAND
Tel: 008 837 464, +64 9 820 3888
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Emergency information:

Telephone: +64 9 820 3888

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

| | |
|--|---------------------------------------|
| Acute toxicity (Oral) | : Category 4 |
| Skin corrosion/irritation | : Category 2 |
| Serious eye damage/eye irritation | : Category 2A |
| Carcinogenicity | : Category 2 |
| Specific target organ toxicity - single exposure | : Category 1 |
| Specific target organ toxicity - | : Category 3 (Central nervous system) |

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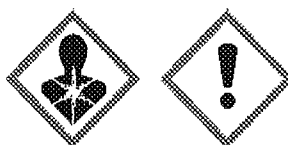
single exposure

Acute toxicity (Dermal) : Category 4

Acute toxicity (Inhalation) : Category 4

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H351 Suspected of causing cancer.
 H370 Causes damage to organs.
 H312 Harmful in contact with skin.
 H332 Harmful if inhaled.

Precautionary statements : **Prevention:**
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ eye protection/ face protection.
 P281 Use personal protective equipment as required.
Response:
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.
 P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P362 Take off contaminated clothing and wash before reuse.
 P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor./?if you feel unwell.
 P330 Rinse mouth.
 P322 Specific measures (see .? on this label).

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P363 Wash contaminated clothing before reuse.
 P321 Specific treatment (see on this label).
 P308 + P313 IF exposed or concerned: Get medical advice/
 attention.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container
 tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste
 disposal plant.

Other hazards which do not result in classification

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|--------------|-----------------------|
| Dichloromethane; Methylene Chloride | 75-09-2 | >= 60 - <= 100 |
| Methanol | 67-56-1 | >= 10 - < 30 |
| Reaction product of Benzenesulfonic acid, 4-C 10-13-sec-alkylderiv. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid | Not Assigned | < 10 |

SECTION 4. FIRST AID MEASURES

General advice : First aider needs to protect himself.
 Move out of dangerous area.
 Take off contaminated clothing and shoes immediately.

Inhalation : Move to fresh air.
 If symptoms persist, call a physician.

Skin contact : Wash off with soap and plenty of water.
 If symptoms persist, call a physician.

Eye contact : Rinse immediately with plenty of water, also under the eyelids.
 Consult a physician.

Ingestion : Rinse mouth with water.
 Do NOT induce vomiting.
 Consult a physician.

Most important symptoms
 and effects, both acute and
 delayed : No information available.

Notes to physician : Treat symptomatically.

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For specialist advice physicians should contact the Poisons
Information Service.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO₂)
Dry powder
Alcohol-resistant foam
Water spray
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Heating or fire can release toxic gas.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Wear personal protective equipment.
For further information see Section 8 of the safety data sheet.
For disposal considerations see section 13.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
- Methods and materials for containment and 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).

SECTION 7. HANDLING AND STORAGE

- 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.
- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
Ensure that eye flushing systems and safety showers are located close to the working place.
To avoid risks to man and the environment, comply with the instructions for use.
- 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.

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Do not breathe vapour.
 Do not breathe spray.

Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-ventilated place.
 Store in original container.
 Store in a place accessible by authorized persons only.
 To maintain product quality, do not store in heat or direct sunlight.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|-------------------------------------|---|----------------------------------|---|--------|
| Dichloromethane; Methylene Chloride | 75-09-2 | TWA | 50 ppm 174 mg/m ³ | AU OEL |
| | Further information: Category 2 (Carc. 2) Suspected human carcinogen, Skin absorption | | | |
| | | TWA | 50 ppm | ACGIH |
| Methanol | 67-56-1 | TWA | 200 ppm 262 mg/m ³ | AU OEL |
| | Further information: Skin absorption | | | |
| | | STEL | 250 ppm 328 mg/m ³ | AU OEL |
| | Further information: Skin absorption | | | |
| | | TWA | 200 ppm | ACGIH |
| | | STEL | 250 ppm | ACGIH |

Biological occupational exposure limits

| Components | CAS-No. | Control parameters | Biological specimen | Sampling time | Permissible concentration | Basis |
|-------------------------------------|---------|--------------------|---------------------|--|---------------------------|-----------|
| Dichloromethane; Methylene Chloride | 75-09-2 | Dichloromethane | Urine | End of shift (As soon as possible after exposure ceases) | 0.3 mg/l | ACGIH BEI |
| Methanol | 67-56-1 | Methanol | Urine | End of shift (As soon as possible after exposure ceases) | 15 mg/l | ACGIH BEI |

Engineering measures : Ensure adequate ventilation, especially in confined areas.

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Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
 Recommended Filter type:
 Type A

Hand protection

Remarks : 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)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid
 Colour : red
 Boiling point/boiling range : ca. 40 °C
 Flash point : Not applicable
 Upper explosion limit : Upper flammability limit
 23 %(V)
 Lower explosion limit : lower flammability limit
 13 %(V)
 Density : ca. 1.18 g/cm³
 Solubility(ies)
 Water solubility : Formation of an emulsion.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.
 Chemical stability : Stable under normal conditions.
 Possibility of hazardous reactions : None known.

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Conditions to avoid : Keep away from open flames, hot surfaces and sources of ignition.

Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: 778.55 mg/kg
 Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
 Exposure time: 4 h
 Test atmosphere: vapour
 Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg
 Method: Calculation method

Components:

Dichloromethane; Methylene Chloride:

Acute inhalation toxicity : LC50 (Rat): 49 mg/l

Acute dermal toxicity : LD50 Dermal (Rat): 2,000 mg/kg

Reaction product of Benzenesulfonic acid, 4-C 10-13-sec-alkylderivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
 Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
 Method: OECD Test Guideline 402
 Test substance: Read-across (Analogy)

Skin corrosion/irritation

Product : No data available

Serious eye damage/eye irritation

Product : No data available

Respiratory or skin sensitisation

Product:

Remarks: No data available

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Chronic toxicity**Germ cell mutagenicity**

Product : No data available

Components:**Reaction product of Benzenesulfonic acid, 4-C 10-13-sec-alkylderivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid:**

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Remarks: In vivo tests did not show mutagenic effects

Carcinogenicity

Product : No data available

Reproductive toxicity

Product : No data available

Components:**Reaction product of Benzenesulfonic acid, 4-C 10-13-sec-alkylderivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid:**

Effects on foetal development : Species: Rat
Application Route: Oral
Duration of Single Treatment: 20 d
Frequency of Treatment: 1 daily
Teratogenicity: No observed adverse effect level: 300 mg/kg
body weight
Result: No teratogenic effects
Remarks: Read-across (Analogy)

STOT - single exposure

Product : No data available

STOT - repeated exposure

Product : No data available

Repeated dose toxicity**Components:****Reaction product of Benzenesulfonic acid, 4-C 10-13-sec-alkylderivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid:**

Species: Rat
NOAEL: 85
LOAEL: 145
Application Route: Oral
Number of exposures: /day
Test substance: Read-across (Analogy)
Target Organs: Kidney

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Species: Mouse
 NOAEL: 440
 Application Route: Skin contact
 Number of exposures: /day
 Method: OECD Test Guideline 411
 Test substance: Read-across (Analogy)

Aspiration toxicity

Product : No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Dichloromethane; Methylene Chloride:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 480 mg/l
 Exposure time: 48 h

LC50 (Daphnia magna (Water flea)): 244 mg/l
 Exposure time: 96 h

Toxicity to algae : EC50 (Selenastrum capricornutum (fresh water algae)): > 662 mg/l

Methanol:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
 Exposure time: 24 h

Toxicity to bacteria : EC50 (Bacteria): 71,000 mg/l

Reaction product of Benzenesulfonic acid, 4-C 10-13-sec-alkylderivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 1 - 10 mg/l
 Exposure time: 96 h
 Test Type: semi-static test
 Method: OECD Test Guideline 203

NOEC (Oncorhynchus mykiss (rainbow trout)): > 0.1 - 1 mg/l
 Exposure time: 72 d
 Test Type: flow-through test
 Test substance: Read-across (Analogy)

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): > 1 - 10 mg/l
 Exposure time: 21 d
 Test Type: Reproduction Test

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Test substance: Read-across (Analogy)
 Method: OECD Test Guideline 211

Toxicity to algae : EC50 (*Scenedesmus subspicatus*): > 10 - 100 mg/l
 Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201
 Remarks: Information taken from reference works and the literature.

Toxicity to bacteria : EC50 (*Pseudomonas putida*): 63 mg/l
 Exposure time: 17 h
 Test Type: Cell multiplication inhibition test

Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

Methanol:

Biochemical Oxygen Demand : 1,120 mg/g
 (BOD)

Chemical Oxygen Demand : 1,500 mg/g
 (COD)

Reaction product of Benzenesulfonic acid, 4-C 10-13-sec-alkylderivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid:

Biodegradability : aerobic
 Biodegradation: > 70 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301A
 Remarks: rapidly biodegradable
 This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Components:

Reaction product of Benzenesulfonic acid, 4-C 10-13-sec-alkylderivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid:

Partition coefficient: : log Pow: 0.7 (20 °C)
 n-octanol/water pH: 6

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Mobility in soil**Product:**

Distribution among environmental compartments : Remarks: No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of contents/ container to an approved waste disposal plant.

Packaging : Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION**International Regulation****IATA-DGR**

UN/ID No. : UN 1593
 Proper shipping name : Dichloromethane
 Class : 6.1
 Packing group : III
 Labels : Toxic Substances
 Packing instruction (cargo aircraft) : 663
 Packing instruction (passenger aircraft) : 655

IMDG-Code

UN number : UN 1593
 Proper shipping name : DICHLOROMETHANE
 Class : 6.1
 Packing group : III
 Labels : 6.1
 EmS Code : F-A, S-A
 Marine pollutant : no
 Remarks : Liquid halogenated hydrocarbons

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

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SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

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.

SECTION 16. OTHER INFORMATION

Further information

Other information :
Date format : dd.mm.yyyy

AU / EN

Vertical lines in the left hand margin indicate an amendment from the previous version.

The content of this Safety Data Sheet (SDS) is based on an existing document from an acquired company with adaptations to Section I. The data is currently under validation.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.