

Safety data sheet

Page: 1/11

Chemetall (now part of BASF Group) Safety data sheet

Date / Revised: 12.12.2018

Product: **ARDROX 9D1B, AEROSOL**

Version: 1.0

(30721092/SDU_GEN_AU/EN)

Date of print 01.07.2020

1. Substance/preparation and manufacturer/supplier identification

ARDROX 9D1B, AEROSOL

Manufacturer/supplier:

Chemetall (Australasia) Pty Ltd

ABN 25 074 869 015

Head Office: 17 Turbo Drive, Bayswater North, Vic 3153, Australia

Freecall: 1800 008 738

Telephone: +61 3 9729 6253

Telefax number: +61 3 9720 1711

E-mail address: customer.service.au@basf.com

Emergency information:

Telephone: 1800 033 111

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable aerosols : Category 1

Serious eye damage/eye irritation : Category 2A

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

GHS label elements

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Hazard pictograms	:	 
Signal word	:	Danger
Hazard statements	:	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Precautionary statements	:	Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after use. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P262 Do not get in eyes, on skin, or on clothing. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: 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. P308 + P313 IF exposed or concerned: Get medical advice/ attention. Storage: P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. 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)
Acetone	67-64-1	>= 30 - < 60
Butane	106-97-8	>= 10 - < 30
Propan-2-ol	67-63-0	>= 10 - < 30
Talc	14807-96-6	< 10

SECTION 4. FIRST AID MEASURES

General advice	: First Aid responders should pay attention to self-protection and use the recommended protective clothing 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. For specialist advice physicians should contact the Poisons Information Service.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Carbon dioxide (CO ₂) 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. Carbon monoxide Carbon dioxide (CO ₂)
Specific extinguishing methods	: Use water spray to cool unopened containers. Risk of bursting.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	: Wear personal protective equipment.
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protective equipment and emergency procedures : 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. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air. Normal measures for preventive fire protection.

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
 Provide exhaust ventilation close to floor level.
 Have eye wash bottle or eye rinse ready at the work 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.
 Do not breathe vapours, aerosols.

Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-ventilated place.
 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
Acetone	67-64-1	TWA	500 ppm 1,185 mg/m ³	AU OEL
		STEL	1,000 ppm 2,375 mg/m ³	AU OEL
		TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH

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Date / Revised: 12.12.2018

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(30721092/SDU_GEN_AU/EN)

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Butane	106-97-8	TWA	800 ppm 1,900 mg/m ³	AU OEL
		STEL	1,000 ppm	ACGIH
Propan-2-ol	67-63-0	TWA	400 ppm 983 mg/m ³	AU OEL
		STEL	500 ppm 1,230 mg/m ³	AU OEL
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
Talc	14807-96-6	TWA	2.5 mg/m ³	AU OEL
		TWA	0.1 fibre/cm ³	ACGIH
		TWA (Respirable fraction)	2 mg/m ³	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Acetone	67-64-1	Acetone	Urine	End of shift (As soon as possible after exposure ceases)	25 mg/l	ACGIH BEI
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of workweek	40 mg/l	ACGIH BEI

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:
AX-P2

Hand protection

Remarks : Nitrile rubber Polychloroprene 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.

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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	: powder suspension in a liquid
Odour	: sweet
Boiling point/boiling range	: -42 °C
Flash point	: -50 °C Method: closed cup
Upper explosion limit	: Upper flammability limit ca. 12.8 %(V)
Lower explosion limit	: lower flammability limit ca. 2.0 %(V)
Density	: ca. 0.7 g/cm ³
Solubility(ies) Water solubility	: soluble

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	: Vapours may form explosive mixture with air. Pressurised container: May burst if heated.
Conditions to avoid	: Keep away from open flames, hot surfaces and sources of ignition. Strong sunlight for prolonged periods.
Hazardous decomposition products	: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product : No data available

Components:

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Date / Revised: 12.12.2018
Product: **ARDROX 9D1B, AEROSOL**

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Acetone:

Acute oral toxicity : LD50 (Rat): 5,800 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): ca. 76 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): > 158,000 mg/kg

Propan-2-ol:

Acute oral toxicity : LD50 (Rat): 5,840 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 30 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): 13,900 mg/kg
Method: OECD Test Guideline 402

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

Chronic toxicity**Germ cell mutagenicity**

Product : No data available

Components:**Acetone:**

Genotoxicity in vitro : Test Type: Ames test
Method: OECD Test Guideline 471
Result: negative

: Test Type: Ames test
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Test Type: in vivo assay
Species: Mouse
Application Route: Oral
Result: negative

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Date / Revised: 12.12.2018
Product: **ARDROX 9D1B, AEROSOL**

Version: 1.0

(30721092/SDU_GEN_AU/EN)

Date of print 01.07.2020

Carcinogenicity

Product : No data available

Reproductive toxicity

Product : No data available

STOT - single exposure

Product : No data available

STOT - repeated exposure

Product : No data available

Aspiration toxicity

Product : No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Acetone:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5,540 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 8,800 mg/l
Exposure time: 48 h
Test Type: static test

NOEC (Daphnia magna (Water flea)): 2,212 mg/l
Exposure time: 28 d
Test Type: flow-through test

Toxicity to algae : NOEC (Algae): 430 mg/l
Exposure time: 96 h
Test Type: static test

NOEC (Microcystis aeruginosa (blue-green algae)): 530 mg/l
Exposure time: 8 d
Test Type: static test

Toxicity to bacteria : (activated sludge): Exposure time: 30 min
Test Type: Respiration inhibition

Propan-2-ol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8,970 mg/l
Exposure time: 48 h

Chemetall (now part of BASF Group) Safety data sheet
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Product: **ARDROX 9D1B, AEROSOL**

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LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 9,714 mg/l
Exposure time: 24 h

Toxicity to algae : EC50 (Scenedesmus subspicatus): > 100 mg/l
Exposure time: 72 h

Toxicity to bacteria : IC50 (Bacteria): > 100 mg/l

Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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 : In accordance with local and national regulations.

Packaging : Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR

UN/ID No. : UN 1950

Proper shipping name : Aerosols, flammable

Class : 2.1

Packing group : Not assigned by regulation

Labels : Flammable gas

Packing instruction (cargo) : 203

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aircraft)
 Packing instruction : 203
 (passenger aircraft)

IMDG-Code
 UN number : UN 1950
 Proper shipping name : AEROSOLS

Class : 2.1
 Packing group : Not assigned by regulation
 Labels : 2.1
 EmS Code : F-D, S-U
 Marine pollutant : no
 Remarks : "IMDG-Code segregation group not applicable", Protected from sources of heat., For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters., For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

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

Not applicable for product as supplied.

National Regulations**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. Classification and labelling according to Directive 75/324/EEC.

Standard for the Uniform : No poison schedule number allocated

Scheduling of Medicines and
 Poisons

SECTION 16. OTHER INFORMATION**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA

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- International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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.