

## Safety data sheet

Page: 1/15

Chemetall (now part of BASF Group) Safety data sheet according to Regulation (EC) No. 1907/2006 as

amended from time to time. Date / Revised: 11.03.2019

Version: 1.0

Product: Ardrox 9PR5, Aerosol

(ID no. 30706464/SDS\_GEN\_GB/EN)

Date of print 12.03.2019

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

1.1. Product identifier

## **Ardrox 9PR5, Aerosol**

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Detergents Not recommended use: None known

## 1.3. Details of the supplier of the safety data sheet

Company:
Chemetall Ltd.
Denbigh Road 65
Bletchley Milton Keynes MK1 1PB
Great Britain
+44 1908 649333
sds.global-chemetall@basf.com

## 1.4. Emergency telephone number

International emergency number: Telephone: +49 180 2273-112

## **SECTION 2: Hazards Identification**

## 2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Skin Corr./Irrit. 2

amended from time to time.

Date / Revised: 11.03.2019

Version: 1.0

Product: Ardrox 9PR5, Aerosol

(ID no. 30706464/SDS\_GEN\_GB/EN)

Date of print 12.03.2019

STOT SE 3 (Vapours may cause drowsiness and dizziness.)

Aquatic Chronic 2 Flam. Aerosol 1

H315, H411, H222, H336, H229

For the classifications not written out in full in this section the full text can be found in section 16.

#### 2.2. Label elements

Globally Harmonized System, EU (GHS)

Pictogram:



## Signal Word: Danger

#### Hazard Statement:

H315 Causes skin irritation.

H411 Toxic to aquatic life with long lasting effects.

H222 Extremely flammable aerosol.
 H336 May cause drowsiness or dizziness.
 H229 Pressurized container: May burst if heated.

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.

P243 Take action to prevent static discharges.
P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

P262 Do not get in eyes, on skin, or on clothing.
P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

Precautionary Statements (Response):

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

Precautionary Statements (Storage):

amended from time to time.

Date / Revised: 11.03.2019

Version: 1.0

Product: Ardrox 9PR5, Aerosol

(ID no. 30706464/SDS\_GEN\_GB/EN)

Date of print 12.03.2019

P410 + P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C/

122°F.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection

point.

#### According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

#### 2.3. Other hazards

#### According to Regulation (EC) No 1272/2008 [CLP]

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

## **SECTION 3: Composition/Information on Ingredients**

#### 3.1. Substances

Not applicable

## 3.2. Mixtures

#### Chemical nature

Blend based on: organic solvent

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

cyclohexane

Content (W/W): >= 1 % - < 2 % Asp. Tox. 1 CAS Number: 110-82-7 Flam. Liq. 2 EC-Number: 203-806-2 Skin Corr./Irrit. 2

REACH registration number: 01- STOT SE 3 (drowsiness and dizziness)

2119463273-41 Aquatic Acute 1
INDEX-Number: 601-017-00-1 Aquatic Chronic 1
M-factor acute: 1

M-factor chronic: 1 H225, H315, H304, H336, H400, H410

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

amended from time to time. Date / Revised: 11.03.2019 Version: 1.0

Product: Ardrox 9PR5, Aerosol

(ID no. 30706464/SDS\_GEN\_GB/EN)

Date of print 12.03.2019

Content (W/W): >= 50 % - < 75 %EC-Number: 927-510-4 REACH registration number: 01-2119475515-33

Flam. Lig. 2 Skin Corr./Irrit. 2

STOT SE (Central nervous system) 3

(drowsiness and dizziness)

Aquatic Chronic 2

Asp. Tox. 1

H315, H411, H225, H304, H336

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

#### **SECTION 4: First-Aid Measures**

## 4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. Remove affected person from danger area. Immediately remove contaminated clothing.

#### If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice.

#### On skin contact:

Wash affected areas thoroughly with soap and water. If symptoms persist, seek medical advice.

#### On contact with eyes:

Rinse immediately with plenty of water, also under the eyelids, for at least 30 minutes. Seek medical attention.

#### On ingestion:

Rinse mouth immediately with water. Do not induce vomiting. Seek medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

## **SECTION 5: Fire-Fighting Measures**

#### 5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, dry powder, alcohol-resistant foam, water spray

Chemetall (now part of BASF Group) Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.03.2019 Version: 1.0

Product: Ardrox 9PR5, Aerosol

(ID no. 30706464/SDS\_GEN\_GB/EN)

Date of print 12.03.2019

Unsuitable extinguishing media for safety reasons: water iet

## 5.2. Special hazards arising from the substance or mixture

carbon oxides

## 5.3. Advice for fire-fighters

Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

In case of combustion evolution of toxic gases/vapours possible.

Cool endangered containers with water-spray. Risk of bursting.

## **SECTION 6: Accidental Release Measures**

## **6.1. Personal precautions, protective equipment and emergency procedures** Use personal protective clothing.

Information regarding personal protective measures see, section 8.

## 6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

#### 6.3. Methods and material for containment and cleaning up

Ensure adequate ventilation. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for diposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents.

#### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

## **SECTION 7: Handling and Storage**

#### 7.1. Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). In closed rooms provide exhaust ventilation at floor level. The workplace should be equipped with an emergency shower and eye-rinsing facility. Warn users about safety measures and precautions to prevent accidents.

Protection against fire and explosion:

Chemetall (now part of BASF Group) Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.03.2019 Version: 1.0

Product: Ardrox 9PR5, Aerosol

(ID no. 30706464/SDS\_GEN\_GB/EN)

Date of print 12.03.2019

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixture with air. The relevant fire protection measures should be noted.

Electrical handling equipment should be explosion-proof. Use explosion-proof equipment.

## 7.2. Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Paper/Fibreboard, Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container dry. Keep container tightly closed in a cool, well-ventilated place. The entrance to storage rooms is to be granted only to appropriately trained personnel. Keep away from heat. Avoid direct sunlight. Protect from frost.

Storage stability:

Storage temperature: < 50.00 °C Storage duration: 36 Months

## 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## **SECTION 8: Exposure Controls/Personal Protection**

#### 8.1. Control parameters

Components with occupational exposure limits

74-98-6: propane

(WEL/EH 40 (UK))

Included in the regulation, but with no data values - See the regulation for

further details

106-97-8: butane

TWA value 1,450 mg/m3; 600 ppm (WEL/EH 40 (UK)) STEL value 1,810 mg/m3; 750 ppm (WEL/EH 40 (UK))

110-82-7: cyclohexane

STEL value 1,050 mg/m3 ; 300 ppm (WEL/EH 40 (UK)) TWA value 350 mg/m3 ; 100 ppm (WEL/EH 40 (UK))

TWA value 700 mg/m3; 200 ppm (OEL (EU))

indicative

Biological limit values (BLV)

No data available.

Components with PNEC

amended from time to time.

Date / Revised: 11.03.2019

Version: 1.0

Product: Ardrox 9PR5, Aerosol

(ID no. 30706464/SDS\_GEN\_GB/EN)

Date of print 12.03.2019

#### 110-82-7: cyclohexane

freshwater: 0.207 mg/l marine water: 0.207 mg/l intermittent release: 0.207 mg/l sediment (freshwater): 3.627 mg/kg sediment (marine water): 3.627 mg/kg

soil: 2.99 mg/kg STP: 3.24 mg/l

#### Components with DNEL

#### 110-82-7: cyclohexane

worker: Long-term exposure- systemic effects, Inhalation: 700 mg/m3, 200

ppm

worker: Short-term exposure - systemic effects, Inhalation: 700 mg/m3, 200

ppm

worker: Long-term exposure - local effects, Inhalation: 700 mg/m3, 200 ppm worker: Short-term exposure - local effects, Inhalation: 700 mg/m3, 200 ppm

worker: Long-term exposure- systemic effects, dermal: 2016 mg/kg

consumer: Short-term exposure - systemic effects, Inhalation: 412 mg/m3 consumer: Long-term exposure - systemic and local effects, Inhalation: 206

mg/m3

consumer: Short-term exposure - local effects, Inhalation: 412 mg/m3 consumer: Long-term exposure - local effects, Inhalation: 206 mg/m3 consumer: Long-term exposure- systemic effects, dermal: 1186 mg/kg consumer: Long-term exposure- systemic effects, oral: 59.4 mg/kg

#### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

worker: Long-term exposure- systemic effects, Inhalation: 2085 mg/m3 worker: Long-term exposure- systemic effects, dermal: 300 mg/kg bw/day

#### 8.2. Exposure controls

## Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. (Gas filter EN 14387 AX)

## Hand protection:

Chemical resistant protective gloves (EN 374)

Further information on penetration time is available from the manufacturer of the glove.

The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

### Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

#### Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

## General safety and hygiene measures

Version: 1.0

Chemetall (now part of BASF Group) Safety data sheet according to Regulation (EC) No. 1907/2006 as

amended from time to time.

Date / Revised: 11.03.2019

Product: Ardrox 9PR5, Aerosol

(ID no. 30706464/SDS\_GEN\_GB/EN)

Date of print 12.03.2019

Do not breathe vapour/spray. Take off immediately all contaminated clothing. Keep away from food, drink and animal feeding stuffs. Hands and/or face should be washed before breaks and at the end of the shift. Avoid contact with skin and eyes.

## **SECTION 9: Physical and Chemical Properties**

## 9.1. Information on basic physical and chemical properties

Form: aerosol
Colour: colourless
Odour: solvent-like

pH value:

not applicable

solidification temperature:

not determined

boiling temperature: 98 °C

active ingredient

-40 °C propellant

Flash point: -4 °C

Information applies to the propellant.

< -70 °C

The values mentioned are those of

the active ingredient.

Flammability: not flammable

Vapour pressure:

(20 °C)

not determined

(50 °C)

not determined

Density: 0.710 g/cm3

(20 °C)

The values mentioned are those of

the active ingredient.

Solubility in water: insoluble

Viscosity, kinematic:

(40 °C)

not determined

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

## 9.2. Other information

Self heating ability: It is not a substance capable of

spontaneous heating.

amended from time to time.

Date / Revised: 11.03.2019

Version: 1.0

Product: Ardrox 9PR5, Aerosol

(ID no. 30706464/SDS\_GEN\_GB/EN)

Date of print 12.03.2019

Miscibility with water:

immiscible

Flow time:

not applicable

## **SECTION 10: Stability and Reactivity**

## 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

## 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

## 10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air. Risk of bursting.

#### 10.4. Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid direct sunlight. Avoid prolonged exposure to extreme heat.

## 10.5. Incompatible materials

Substances to avoid: strong oxidizing agents

#### 10.6. Hazardous decomposition products

Possible decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

## **SECTION 11: Toxicological Information**

## 11.1. Information on toxicological effects

#### Acute toxicity

Assessment of acute toxicity:

Based on available Data, the classification criteria are not met.

## **Irritation**

Assessment of irritating effects:

Skin contact causes irritation.

#### Respiratory/Skin sensitization

amended from time to time.

Date / Revised: 11.03.2019

Version: 1.0

Product: Ardrox 9PR5, Aerosol

(ID no. 30706464/SDS\_GEN\_GB/EN)

Date of print 12.03.2019

#### Assessment of sensitization:

Based on available Data, the classification criteria are not met.

## Germ cell mutagenicity

#### Assessment of mutagenicity:

Based on available Data, the classification criteria are not met.

#### Carcinogenicity

#### Assessment of carcinogenicity:

Based on available Data, the classification criteria are not met.

#### Reproductive toxicity

#### Assessment of reproduction toxicity:

Based on available Data, the classification criteria are not met.

#### Developmental toxicity

#### Assessment of teratogenicity:

Based on available Data, the classification criteria are not met.

## Specific target organ toxicity (single exposure)

## Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

## Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

## Assessment of repeated dose toxicity:

Based on available Data, the classification criteria are not met.

#### **Aspiration hazard**

No aspiration hazard expected.

## **SECTION 12: Ecological Information**

#### 12.1. Toxicity

#### Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways. The mixture has been assessed following regulation (EC) No 1272/2008 and is classified for ecotoxicological properties accordingly. See sections 2 and 3 for details.

Chemetall (now part of BASF Group) Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.03.2019 Version: 1.0

Product: Ardrox 9PR5, Aerosol

(ID no. 30706464/SDS\_GEN\_GB/EN)

Date of print 12.03.2019

## 12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O):

Biological degradability of hazardous substances mentioned in section 3:

Information on: cyclohexane Elimination information:

77 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic, non-

adapted)

-----

## 12.3. Bioaccumulative potential

Bioaccumulation potential:

No data available.

## 12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: No data available.

## 12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

## 12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

## **SECTION 13: Disposal Considerations**

## 13.1. Waste treatment methods

Observe national and local legal requirements.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

amended from time to time.

Date / Revised: 11.03.2019

Version: 1.0

Product: Ardrox 9PR5, Aerosol

(ID no. 30706464/SDS\_GEN\_GB/EN)

Date of print 12.03.2019

## **SECTION 14: Transport Information**

## **Land transport**

ADR

UN number UN1950 UN proper shipping name: AEROSOLS

Transport hazard class(es): 2.1

Packing group: Not applicable

Environmental hazards: no

Special precautions for Tunnel code: D

user:

**RID** 

UN number UN1950 UN proper shipping name: AEROSOLS

Transport hazard class(es): 2.1

Packing group: Not applicable

Environmental hazards: no

Special precautions for

user:

#### **Inland waterway transport**

ADN

UN number UN1950 UN proper shipping name: AEROSOLS

Transport hazard class(es): 2.1

Packing group: Not applicable

Environmental hazards: no

Special precautions for

user:

#### Transport in inland waterway vessel

Not evaluated

## Sea transport

**IMDG** 

UN number: UN 1950 UN proper shipping name: AEROSOLS

Transport hazard class(es): 2.1

Packing group: Not applicable

amended from time to time.

Date / Revised: 11.03.2019

Version: 1.0

Product: Ardrox 9PR5, Aerosol

(ID no. 30706464/SDS\_GEN\_GB/EN)

Date of print 12.03.2019

Environmental hazards: no

Marine pollutant: YES

Special precautions for

user:

## Air transport

#### IATA/ICAO

UN number: UN 1950

UN proper shipping name: AEROSOLS, FLAMMABLE

Transport hazard class(es): 2.1

Packing group: Not applicable

Environmental hazards: No Mark as dangerous for the environment is needed

Special precautions for

user:

#### 14.1. UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

#### 14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

#### 14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

## 14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

## 14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

## 14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation: Not evaluated
Shipment approved: Not evaluated
Pollution name: Not evaluated
Pollution category: Not evaluated
Ship Type: Not evaluated

amended from time to time. Date / Revised: 11.03.2019 Version: 1.0

Product: Ardrox 9PR5, Aerosol

(ID no. 30706464/SDS\_GEN\_GB/EN)

Date of print 12.03.2019

## **SECTION 15: Regulatory Information**

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 28, 29, 57, 3

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU): FLAMMABLE AEROSOLS 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids Category 1

## 15.2. Chemical Safety Assessment

For a mixture it is not mandatory to include an exposure scenario in the material safety data sheet.

The general risk management measures related to the physico-chemical hazard of the product are communicated in chapter 2-14 of this SDS; they are to be considered by the (downstream) user when assessing the risks in accordance with his specific operating conditions and workplace environment.

#### **SECTION 16: Other Information**

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned

in section 2 or 3:

Skin Corr./Irrit. Skin corrosion/irritation

STOT SE Specific target organ toxicity — single exposure Aquatic Chronic Hazardous to the aquatic environment - chronic

Flam. Aerosol Flammable aerosols Asp. Tox. Aspiration hazard Flam. Liq. Flammable liquids

Aquatic Acute Hazardous to the aquatic environment - acute

H315 Causes skin irritation.

Toxic to aquatic life with long lasting effects. H411

H222 Extremely flammable aerosol. May cause drowsiness or dizziness. H336 Pressurized container: May burst if heated. H229 Highly flammable liquid and vapour. H225

May be fatal if swallowed and enters airways. H304

Very toxic to aquatic life. H400

Very toxic to aquatic life with long lasting effects. H410

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

Page: 15/15

Chemetall (now part of BASF Group) Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.03.2019 Version: 1.0

Product: Ardrox 9PR5, Aerosol

(ID no. 30706464/SDS\_GEN\_GB/EN)

Date of print 12.03.2019

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.

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