

# Safety data sheet

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Chemetall (now part of BASF Group) Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 10.02.2023

Version: 4.0

Date previous version: 25.07.2022

Previous version: 3.0

Date / First version: 10.12.2019

Product: **ARDROX 907 PB**

(ID no. 30706502/SDS\_GEN\_GB/EN)

Date of print 16.03.2023

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

### 1.1. Product identifier

## ARDROX 907 PB

UFI: M7UJ-Y412-G00N-86V9

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

Recommended use: Red penetrative liquid.

Not recommended use: Uses other than recommended

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

Company:  
Chemetall Ltd.  
Napier House, Auckland Park  
Bletchley, MK1 1BU  
Great Britain  
+44 1908 649333  
sds.global-chemetall@basf.com

### 1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

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For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Eye Dam./Irrit. 1

H318 Causes serious eye damage.

Asp. Tox. 1

H304 May be fatal if swallowed and enters airways.

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

## 2.2. Label elements

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Pictogram:



Signal Word:

Danger

Hazard Statement:

H304

May be fatal if swallowed and enters airways.

H318

Causes serious eye damage.

Precautionary Statements (Prevention):

P280

Wear protective gloves, protective clothing and eye protection or face protection.

Precautionary Statements (Response):

P310

Immediately call a POISON CENTER or physician.

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER or physician.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P331

Do NOT induce vomiting.

Precautionary Statements (Storage):

P405

Store locked up.

Precautionary Statements (Disposal):

P501

Dispose of contents and container to hazardous or special waste collection point.

Hazard determining component(s) for labelling: Distillates (petroleum), hydrotreated light naphthenic, Ethoxylated Secondary Alcohols, Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics, (POLYMER) Alcohols, C9-11, ethoxylated

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## 2.3. Other hazards

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

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.

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Chemical nature

organic compounds, polymers, organic solvent

Hazardous ingredients (GHS)

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics

Content (W/W):  $\geq 50\%$  -  $< 75\%$  Asp. Tox. 1

CAS Number: 64742-46-7 H304

REACH registration number: 01-2119826592-36

Ethoxylated Secondary Alcohols

Content (W/W):  $\geq 3\%$  -  $< 5\%$  Acute Tox. 4 (oral)

CAS Number: 68131-40-8 Eye Dam./Irrit. 1

H318, H302

(POLYMER) Alcohols, C9-11, ethoxylated

Content (W/W):  $\geq 3\%$  -  $< 5\%$  Acute Tox. 4 (oral)

CAS Number: 68439-46-3 Eye Dam./Irrit. 1

H318, H302

(2-Methoxymethylethoxy)propanol

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Content (W/W):  $\geq 3\%$  -  $< 5\%$

CAS Number: 34590-94-8

Substance with EU occupational exposure limit

EC-Number: 252-104-2

REACH registration number: 01-2119450011-60

Distillates (petroleum), hydrotreated light naphthenic

Content (W/W):  $\geq 2\%$  -  $< 2.5\%$

Asp. Tox. 1

CAS Number: 64742-53-6

H304

EC-Number: 265-156-6

REACH registration number: 01-2119480375-34

2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs.

Content (W/W):  $\geq 1\%$  -  $< 2\%$

Repr. 2 (fertility)

CAS Number: 92257-31-3

STOT RE (Liver, Spleen) 2

EC-Number: 296-120-8

Aquatic Chronic 4

H361f, H373, H413

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol

Content (W/W):  $\geq 0.2\%$  -  $< 0.3\%$

Acute Tox. 4 (oral)

CAS Number: 95-38-5

Skin Corr./Irrit. 1C

EC-Number: 202-414-9

Eye Dam./Irrit. 1

REACH registration number: 01-2119777867-13

Aquatic Chronic 1

STOT RE (Digestive organs, Thymus gland) 2

Aquatic Acute 1

M-factor acute: 10

M-factor chronic: 1

H302, H314, H373, H400, H410

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

Keep warm, calm and covered up. Never give anything by mouth to an unconscious person. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

If inhaled:

Immediate medical attention required. Remove the affected individual into fresh air and keep the person calm. If breathing is irregular or stopped, administer artificial respiration.

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On skin contact:

If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

On contact with eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

On ingestion:

Summon medical aid without delay. Do not induce vomiting due to aspiration hazard. Rinse mouth immediately with water. Keep at rest.

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

Symptoms: aspiration pneumonia, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: If swallowed, in the event of vomiting, risk of product entering the lungs. When inhaled (e.g. during vomiting) risk of pulmonary oedema and/or pneumonia.

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

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: No known specific antidote.

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

### **5.1. Extinguishing media**

Suitable extinguishing media:

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

Unsuitable extinguishing media for safety reasons:

water jet

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

Endangering substances: carbon oxides, phosphorus oxides

Advice: Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

### **5.3. Advice for fire-fighters**

Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

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## SECTION 6: Accidental Release Measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

### 6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

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

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

### 6.4. Reference to other sections

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

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## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.

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

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethyleneterephthalate (PET), Polypropylene (PP), Carbon steel (Iron), tinned carbon steel (Tinplate)

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Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing.

Storage stability:

Storage temperature: 5 - 40 °C

Storage duration: 60 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.

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

#### Components with occupational exposure limits

34590-94-8: (2-Methoxymethylethoxy)propanol

TWA value 308 mg/m<sup>3</sup> ; 50 ppm (WEL/EH 40 (UK))

Skin Designation (WEL/EH 40 (UK))

The substance can be absorbed through the skin.

TWA value 308 mg/m<sup>3</sup> ; 50 ppm (OEL (EU))

indicative

Skin Designation (OEL (EU))

The substance can be absorbed through the skin.

#### Biological limit values (BLV)

No data available.

#### Components with PNEC

95-38-5: 2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol

freshwater: 0.00003 mg/l

marine water: 0.000003 mg/l

intermittent release: 0.0003 mg/l

sediment (freshwater): 0.376 mg/kg

sediment (marine water): 0.0376 mg/kg

soil: 0.075 mg/kg

STP: 0.27 mg/l

68131-40-8: Ethoxylated Secondary Alcohols

marine water: 0.000153 mg/l

freshwater: 0.00153 mg/l

STP: 8.24 mg/l

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sediment (freshwater): 64.3 mg/kg  
soil: 12.9 mg/kg  
intermittent release: 0.0153 mg/l  
sediment (marine water): 6.43 mg/kg

68439-46-3: (POLYMER) Alcohols, C9-11, ethoxylated  
STP: 1.4 mg/l  
soil: 1 mg/kg  
marine water: 0.10379 mg/l  
sediment (freshwater): 13.7 mg/kg  
intermittent release: 0.014 mg/l  
sediment (marine water): 13.7 mg/kg  
freshwater: 0.10379 mg/l

#### Components with DNEL

95-38-5: 2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol  
worker: Long-term exposure- systemic effects, dermal: 0.06 mg/kg  
worker: Long-term exposure- systemic effects, Inhalation: 0.46 mg/m<sup>3</sup>  
worker: Short-term exposure - systemic effects, dermal: 2 mg/kg  
worker: Short-term exposure - systemic effects, Inhalation: 14 mg/m<sup>3</sup>

64742-53-6: Distillates (petroleum), hydrotreated light naphthenic  
worker: Long-term exposure - local effects, Inhalation: 5.4 mg/m<sup>3</sup>

68439-46-3: (POLYMER) Alcohols, C9-11, ethoxylated  
consumer: Long-term exposure- systemic effects, by inhalation: 87 mg/m<sup>3</sup>  
Repeated dose toxicity  
consumer: Long-term exposure- systemic effects, dermal: 1250 mg/kg  
Repeated dose toxicity  
consumer: Long-term exposure- systemic effects, oral: 25 mg/kg  
Repeated dose toxicity  
worker: Long-term exposure- systemic effects, dermal: 2080 mg/kg  
Repeated dose toxicity  
worker: Long-term exposure- systemic effects, by inhalation: 294 mg/m<sup>3</sup>  
Repeated dose toxicity

## **8.2. Exposure controls**

#### Appropriate engineering controls

Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

#### Personal protective equipment

Respiratory protection:

In situations where splashes or fine aerosols may form use appropriate certified respirators.

Respiratory protection required if exposure limit (if available) may be exceeded (Gas filter EN 14387 A)



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#### Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

nitrile rubber (NBR) - 0.4 mm coating thickness

Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1

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

The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

#### 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

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible.

Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

#### Environmental exposure controls

For information regarding environmental exposure controls, see Section 6.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Form:	liquid	
Colour:	red	
Odour:	of hydrocarbons	
pH value:	3.7 (950.0 g/l, 20 °C)	
Melting point:	not determined	
onset of boiling:	not determined	
Flash point:	> 93 °C	(ISO 3679)
Flammability:	hardly combustible	
Lower explosion limit:	not determined	
Vapour pressure:	(20 °C) not determined	
	(50 °C) not determined	

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Density: 0.860 g/cm<sup>3</sup>  
(20 °C)  
Relative vapour density (air):  
Heavier than air.  
Partitioning coefficient n-octanol/water (log K<sub>ow</sub>):  
not applicable for mixtures  
Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.  
Viscosity, kinematic: 4.4 mm<sup>2</sup>/s  
(40 °C)  
Explosion hazard: not explosive  
Fire promoting properties: not fire-propagating

## 9.2. Other information

Self heating ability: It is not a material capable of spontaneous heating

Miscibility with water:  
miscible

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## 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 ignitable mixture with air.

### 10.4. Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid direct sunlight. Avoid freezing.

### 10.5. Incompatible materials

Substances to avoid:

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

### 10.6. Hazardous decomposition products

Possible decomposition products:

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

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## 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:

Not irritating to the skin. May cause severe damage to the eyes.

#### Respiratory/Skin sensitization

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:

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

#### 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.

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#### Aspiration hazard

May also damage the lung at swallowing (aspiration hazard).

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## 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 not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

### 12.2. Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

No data available concerning biodegradation and elimination.

### 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.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Do not discharge into drains/surface waters/groundwater.

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Observe national and local legal requirements.

Dispose of the substance/product as special waste in accordance with Directive 2008/98/EC.

Waste key:

Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Contaminated packaging:

Containers which are not properly emptied must be disposed pursuant to Directive 2008/98/EC

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

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## SECTION 14: Transport Information

### Land transport

ADR

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

RID

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### Inland waterway transport

ADN

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable

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Environmental hazards:	Not applicable
Special precautions for user:	None known

#### Transport in inland waterway vessel

Not evaluated

### **Sea transport**

#### IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### **Air transport**

#### IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

#### **14.1. UN number or ID number**

See corresponding entries for "UN number or ID 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.

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#### **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. Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

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### **SECTION 15: Regulatory Information**

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

Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

VOC content: 4.0 %

VOC content: 34.6 g/l

##### Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3, 28, 75

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):  
Listed in above regulation: no

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

#### **15.2. Chemical Safety Assessment**

Chemical Safety Assessment not required

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

Restricted to professional users.

Literature and Data Sources: REACH-Regulation (EC) No. 1907/2006. CLP-Regulation (EC) No. 1272/2008.

Chemetall (now part of BASF Group) Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

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Product: **ARDROX 907 PB**

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Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Eye Dam./Irrit.	Serious eye damage/eye irritation
Asp. Tox.	Aspiration hazard
Acute Tox.	Acute toxicity
Repr.	Reproductive toxicity
STOT RE	Specific target organ toxicity — repeated exposure
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Skin Corr./Irrit.	Skin corrosion/irritation
Aquatic Acute	Hazardous to the aquatic environment - acute
H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H302	Harmful if swallowed.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs (Liver, Spleen) through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

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.

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