



Safety data sheet

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Chemetall (now part of BASF Group) Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time. Date / Revised: 13.01.2020 Version: 1.0 Date previous version: not applicable Previous version: none Product: ARDROX 907PB, Aerosol

> (ID no. 30706503/SDS_GEN_GB/EN) Date of print 13.02.2020

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

1.1. Product identifier

ARDROX 907PB, Aerosol

1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended use: Red penetrative liquid. Not recommended use: None known

1.3. Details of the supplier of the safety data sheet

<u>Company:</u> 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

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Date of print 13.02.2020 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 Regulation (EC) No 1272/2008 [CLP]

Eye Dam./Irrit. 1 Flam. Aerosol 1 Flam. Aerosol 1

H222, H229, H318

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: H222 H229 H318	Extremely flammable aerosol. Pressurized container: May burst if heated. Causes serious eye damage.
Precautionary Statemer	nts (Prevention):
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P251	Do not pierce or burn, even after use.
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.
Precautionary Statemer	nts (Response):
P310 P305 + P351 + P338	Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary Statements (Storage):

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P410 + P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C/ 122°F.

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

Hazard determining component(s) for labelling: Distillates (petroleum), hydrotreated light naphthenic, Ethoxylated Secondary Alcohols (C11 - 15), Alcohol ethoxylate, Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics

2.3. Other hazards

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

Container is under pressure. Protect from sun and temperatures above 50 °C. Do not open with force or incinerate even after use. Do not spray into flames or onto glowing objects.

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 solvent

<u>Hazardous ingredients (GHS)</u> according to Regulation (EC) No. 1272/2008

(2-Methoxymethylethoxy)propanol Content (W/W): >= 2 % - < 2.5 % CAS Number: 34590-94-8 EC-Number: 252-104-2 REACH registration number: 01-2119450011-60

Exception community workplace exposure limit (see section 8)

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

ended from time to time. te / Revised: 13.01.2020 te previous version: not applicable oduct: ARDROX 907PB, Aerosol	Version: 1. Previous version: non
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Content (W/W): >= 1 % - < 2 %	Date of print 13.02.202
CAS Number: 92257-31-3	Repr. 2
EC-Number: 296-120-8	H361f
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol Content (W/W): >= 0.1 % - < 0.2 % CAS Number: 95-38-5 EC-Number: 202-414-9 REACH registration number: 01- 2119777867-13	Acute Tox. 4 (oral) Skin Corr./Irrit. 1C Eye Dam./Irrit. 1 STOT RE (Digestive organs, Thymus gland) 2 Aquatic Acute 1 Aquatic Chronic 1 M-factor acute: 10 M-factor chronic: 1 H302, H373, H314, H400, H410
Distillates (petroleum), hydrotreated light naphtl Content (W/W): >= 1 % - < 2 % CAS Number: 64742-53-6 EC-Number: 265-156-6	nenic Asp. Tox. 1 H304
Ethoxylated Secondary Alcohols (C11 - 15)	Acute Tox. 4 (oral)
Content (W/W): >= 2 % - < 2.5 %	Eye Dam./Irrit. 1
CAS Number: 68131-40-8	H318, H302
Alcohol ethoxylate	Acute Tox. 4 (oral)
Content (W/W): >= 3 % - < 5 %	Eye Dam./Irrit. 1
CAS Number: 68439-45-2	H318, H302
Hydrocarbons, C13-C16, n-alkanes, isoalkanes	, cyclics, < 0,03% aromatics
Content (W/W): >= 30 % - < 50 %	Asp. Tox. 1
CAS Number: 64742-46-7	H304

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

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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 breathing is irregular or stopped, administer artificial respiration.

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. Immediate medical attention required.

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: 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.

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

Treatment: Symptomatic treatment (decontamination, vital functions). Antidote: No known specific antidote.

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

carbon oxides Cool containers exposed to fire with water. Decomposition, pressure build-up and bursting of containers may occur.

5.3. Advice for fire-fighters

Special protective equipment: Appropriate breathing apparatus may be required.

Further information:

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Date of print 13.02.2020 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.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Avoid breathing vapours. Keep away from sources of ignition. Ensure adequate ventilation. Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

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 diposal 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.

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. 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. The relevant fire protection measures should be noted.

7.2. Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Paper/Fibreboard

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Date of print 13.02.2020 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.

Storage stability: Storage temperature: < 50 °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

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)) 34590-94-8: (2-Methoxymethylethoxy)propanol TWA value 308 mg/m3 ; 50 ppm (WEL/EH 40 (UK)) Skin Designation (WEL/EH 40 (UK)) The substance can be absorbed through the skin. TWA value 308 mg/m3 ; 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

34590-94-8: (2-Methoxymethylethoxy)propanol freshwater: 19 mg/l marine water: 1.9 mg/l intermittent release: 190 mg/l STP: 4168 mg/l sediment (freshwater): 70.2 mg/kg sediment (marine water): 7.02 mg/kg soil: 2.74 mg/kg oral (secondary poisoning): No PNEC oral derived, as accumulation in organisms is not to be expected.

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95-38-5: 2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol freshwater: 0.00003 mg/l marine water: 0.00003 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

64742-53-6: Distillates (petroleum), hydrotreated light naphthenic oral (secondary poisoning): 9.33 mg/kg

68131-40-8: Ethoxylated Secondary Alcohols (C11 - 15) marine water: 0.000153 mg/l freshwater: 0.00153 mg/l STP: 8.24 mg/l sediment (freshwater): 64.3 mg/kg soil: 12.9 mg/kg intermittent release: 0.0153 mg/l sediment (marine water): 6.43 mg/kg

64742-46-7: Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics oral (secondary poisoning): 17 g/kg

Components with DNEL

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

worker: Long-term exposure- systemic effects, dermal: 65 mg/kg worker: Long-term exposure- systemic effects, Inhalation: 310 mg/m3 consumer: Long-term exposure- systemic effects, dermal: 15 mg/kg consumer: Long-term exposure- systemic effects, Inhalation: 37.2 mg/m3 consumer: Long-term exposure- systemic effects, oral: 1.67 mg/kg

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/m3 worker: Short-term exposure - systemic effects, dermal: 2 mg/kg worker: Short-term exposure - systemic effects, Inhalation: 14 mg/m3

8.2. Exposure controls

Personal protective equipment

Respiratory protection: Wear respiratory protection if ventilation is inadequate. (Combination filter EN 14387 AX-P)

Hand protection: Chemical resistant protective gloves (EN 374) Further information on penetration time is available from the manufacturer of the glove.

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Date of print 13.02.2020 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

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.

<u>Environmental exposure controls</u> 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:	aerosol
Colour: Odour:	red
	of hydrocarbons
pH value:	not determined
solidification temperature	
	not determined
onset of boiling:	-40 °C
5	propellant
Flash point:	> 93 °C
	The values mentioned are those of
	the active ingredient.
Flammability:	Extremely flammable.
Vapour pressure:	
	(20 °C)
	not determined
	(50 °C) not determined
Density:	0.860 g/cm3
Density.	(20 °C)
	The values mentioned are those of
	the active ingredient.
Solubility in water:	

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Viscosity, kinematic:

(40 °C) not applicable, 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.
Miscibility with water: Flow time:	miscible
	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.

10.4. Conditions to avoid

Avoid direct sunlight. Avoid heat.

10.5. Incompatible materials

Substances to avoid: strong acids, oxidizing agents, strong bases

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.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

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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.

Aspiration hazard

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No aspiration hazard expected.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

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. There are no test results available for this product. Do not allow to enter drains or waterways.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O): 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.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Observe national and local legal requirements.

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Waste key:

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

Contaminated packaging:

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

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

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Sea transport

IMDG

UN number:	UN 1950
UN proper shipping name:	AEROSOLS
Transport hazard class(es):	2.1
Packing group:	Not applicable
Environmental hazards:	no
	Marine pollutant: NO
Special precautions for	
user:	

Air transport

IATA/ICAO

UN number: UN 19 UN proper shipping name: AERC Transport hazard class(es): 2.1 Packing group: Not a Environmental hazards: No M Special precautions for user:

UN 1950 AEROSOLS, FLAMMABLE 2.1 Not applicable No Mark as dangerous for the environment is needed

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.

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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

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, 3

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU): Listed in above regulation: 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

Chemical Safety Assessment not required

SECTION 16: Other Information

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
Flam. Aerosol	Flammable aerosols
Repr.	Reproductive toxicity
Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
STOT RE	Specific target organ toxicity — repeated exposure
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Asp. Tox.	Aspiration hazard
H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H318	Causes serious eye damage.
H361f	Suspected of damaging fertility.
H302	Harmful if swallowed.

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H373	May cause damage to organs (Digestive organs, Thymus gland) through
	prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H304	May be fatal if swallowed and enters airways.

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.