

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: 30.01.2020

Version: 1.0

Date previous version: not applicable

Previous version: none

Product: **ARDROX 3966**

(ID no. 30706304/SDS_GEN_GB/EN)

Date of print 08.12.2020

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

1.1. Product identifier

ARDROX 3966

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

Recommended use: corrosion inhibitor

Not recommended use: None known

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

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 Regulation (EC) No 1272/2008 [CLP]

Asp. Tox. 1

Skin Sens. 1

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

Flam. Liq. 3

H226, H304, H317, H336

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:

H226

Flammable liquid and vapour.

H304

May be fatal if swallowed and enters airways.

H317

May cause an allergic skin reaction.

H336

May cause drowsiness or dizziness.

Precautionary Statements (Prevention):

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P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P242	Use only non-sparking tools.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P243	Take action to prevent static discharges.
P233	Keep container tightly closed.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements (Response):

P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P370 + P378	In case of fire: Use water spray for extinction.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P303 + P361 + P353	IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P331	Do NOT induce vomiting.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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Labeling of special preparations (GHS):

EUH066: Repeated exposure may cause skin dryness or cracking.

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

Hazard determining component(s) for labelling: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, Bariumsulfonate

2.3. Other hazards

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

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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

2-butoxyethanol

Content (W/W): $\geq 2\%$ - $< 2.5\%$	Eye Dam./Irrit. 2
CAS Number: 111-76-2	Acute Tox. 4 (Inhalation - vapour)
EC-Number: 203-905-0	Acute Tox. 4 (oral)
REACH registration number: 01-2119475108-36	Acute Tox. 4 (dermal)
INDEX-Number: 603-014-00-0	Skin Corr./Irrit. 2
	H319, H315, H302 + H312 + H332

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, $< 2\%$ aromatics

Content (W/W): $\geq 50\%$ - $< 75\%$	Asp. Tox. 1
CAS Number: 64742-48-9	Flam. Liq. 3
EC-Number: 919-857-5	STOT SE (Central nervous system) 3
REACH registration number: 01-2119463258-33	(drowsiness and dizziness)
	H226, H304, H336
	EUH066

Bariumsulfonate

Content (W/W): $\geq 2.5\%$ - $< 3\%$	Skin Sens. 1
CAS Number: 61790-48-5	H317
EC-Number: 263-140-3	

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.

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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. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

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: 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: Danger of drowsiness and dizziness.

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

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

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5.3. Advice for fire-fighters

Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

Cool endangered containers with water-spray. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

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 disposal 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). 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.

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7.2. Conditions for safe storage, including any incompatibilities

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

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

Storage stability:

Storage temperature: -10 - 40 °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

111-76-2: 2-butoxyethanol

Skin Designation (WEL/EH 40 (UK))

The substance can be absorbed through the skin.

TWA value 123 mg/m³ ; 25 ppm (WEL/EH 40 (UK))

STEL value 246 mg/m³ ; 50 ppm (WEL/EH 40 (UK))

Skin Designation (OEL (EU))

The substance can be absorbed through the skin.

STEL value 246 mg/m³ ; 50 ppm (OEL (EU))

indicative

TWA value 98 mg/m³ ; 20 ppm (OEL (EU))

indicative

64742-52-5: Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified

Skin Designation (Directive 2004/37/EC)

The substance can be absorbed through the skin.

Components with biological limit values

111-76-2: 2-butoxyethanol

UKEH40BMGV

Determinant: butoxyacetic acid

Biological Specimen: Creatinine in urine

Sampling time: End of shift

Concentration: 240 mmol/mol

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Components with PNEC

111-76-2: 2-butoxyethanol

freshwater: 8.8 mg/l
marine water: 0.88 mg/l
intermittent release: 9.1 mg/l
sediment (freshwater): 34.6 mg/kg
sediment (marine water): 3.46 mg/kg
soil: 2.33 mg/kg
STP: 463 mg/l
oral (secondary poisoning): 20 mg/kg

61790-48-5: Bariumsulfonate

intermittent release: 10 mg/l
STP: 1000 mg/l
freshwater: 1 mg/l
marine water: 1 mg/l
sediment (marine water): 226000000 mg/kg
oral (secondary poisoning): 16.667 mg/kg
sediment (freshwater): 226000000 mg/kg
soil: 271000000 mg/kg

Components with DNEL

111-76-2: 2-butoxyethanol

worker: Long-term exposure- systemic effects, dermal: 125 mg/kg
worker: Short-term exposure - systemic effects, dermal: 89 mg/kg
worker: Long-term exposure- systemic effects, Inhalation: 98 mg/m³, 20 ppm
worker: Short-term exposure - systemic effects, Inhalation: 1091 mg/m³
worker: Short-term exposure - local effects, Inhalation: 246 mg/m³
consumer: Long-term exposure- systemic effects, dermal: 75 mg/kg
consumer: Short-term exposure - systemic effects, dermal: 89 mg/kg
consumer: Long-term exposure- systemic effects, oral: 6.3 mg/kg
consumer: Short-term exposure - systemic effects, oral: 26.7 mg/kg
consumer: Long-term exposure- systemic effects, Inhalation: 59 mg/m³
consumer: Short-term exposure - local effects, Inhalation: 426 mg/m³
consumer: Short-term exposure - local effects, Inhalation: 147 mg/m³

64742-48-9: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

worker: Long-term exposure- systemic effects, dermal: 208 mg/kg bw/day
worker: Long-term exposure- systemic effects, Inhalation: 871 mg/m³

61790-48-5: Bariumsulfonate

worker: Long-term exposure- systemic effects, dermal: 3.33 mg/kg
Repeated dose toxicity
consumer: Long-term exposure- systemic effects, dermal: 1.667 mg/kg
Repeated dose toxicity

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consumer: Long-term exposure - local effects, dermal: 0.513 mg/cm²

Skin sensitization

worker: Long-term exposure- systemic effects, by inhalation: 11.75 mg/m³

Repeated dose toxicity

worker: Long-term exposure - local effects, dermal: 1.03 mg/cm²

Skin sensitization

consumer: Long-term exposure- systemic effects, oral: 0.8333 mg/kg

Repeated dose toxicity

consumer: Long-term exposure- systemic effects, by inhalation: 2.9 mg/m³

Repeated dose toxicity

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

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

Hand protection:

nitrile rubber (Buna N)

Use suitable protective gloves made of nitrile rubber or butyl rubber. Please observe the glove manufacturer's instructions on permeability and rupture times as well as the specific workplace conditions.

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

Handle in accordance with good industrial hygiene and safety practice. Eye wash fountains and safety showers must be easily accessible. Do not breathe vapour/spray. Avoid contact with the skin, eyes and clothing. 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.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	liquid
Colour:	amber
Odour:	characteristic

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pH value:	not applicable
Melting point:	not determined
onset of boiling:	> 150 °C
Flash point:	40 °C
Flammability:	Flammable liquid and vapour.
Lower explosion limit:	not determined
Ignition temperature:	not determined
Vapour pressure:	(20 °C) not determined
	(50 °C) not determined
Density:	0.830 g/cm ³ (20 °C)
Solubility in water:	insoluble
Viscosity, kinematic:	< 7 mm ² /s (40 °C) not determined
Fire promoting properties:	not fire-propagating

9.2. Other information

Self heating ability: It is not a substance capable of spontaneous heating.

Flow time: < 30 s (DIN EN ISO 2431; 3 mm)

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

No hazardous reactions when stored and handled according to instructions. Vapours may form explosive mixture with air.

10.4. Conditions to avoid

Avoid direct sunlight.

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10.5. Incompatible materials

Substances to avoid:
strong oxidizing agents

10.6. Hazardous 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

Acute toxicity

Assessment of acute toxicity:
Based on available Data, the classification criteria are not met.

Irritation

Assessment of irritating effects:
Based on available Data, the classification criteria are not met.

Respiratory/Skin sensitization

Assessment of sensitization:
Sensitization after skin contact possible.

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

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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

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

Other relevant toxicity information

Has a degreasing effect on skin.

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.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

No data available concerning biodegradation and elimination.

12.3. Bioaccumulative potential

Bioaccumulation potential:

Accumulation in organisms is not to be expected.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: No data available.

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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.

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	UN1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains NAPHTHA (PETROLEUM))
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no
Special precautions for user:	Tunnel code: D/E

RID

UN number	UN1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains NAPHTHA (PETROLEUM))

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Transport hazard class(es): 3
Packing group: III
Environmental hazards: no
Special precautions for user:

Inland waterway transport

ADN

UN number: UN1993
UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains NAPHTHA (PETROLEUM))
Transport hazard class(es): 3
Packing group: III
Environmental hazards: no
Special precautions for user:

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number: UN 1993
UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains NAPHTHA (PETROLEUM))
Transport hazard class(es): 3
Packing group: III
Environmental hazards: no
Marine pollutant: NO
Special precautions for user:

Air transport

IATA/ICAO

UN number: UN 1993
UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains NAPHTHA (PETROLEUM))
Transport hazard class(es): 3
Packing group: III

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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

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, 3, 40

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):
Listed in above regulation: Flammable liquids, Categories 2 or 3 not covered by P5a and P5b

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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:

Asp. Tox.	Aspiration hazard
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity — single exposure
Flam. Liq.	Flammable liquids
Eye Dam./Irrit.	Serious eye damage/eye irritation
Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled
EUH066	Repeated exposure may cause skin dryness or cracking.

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

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

Date / Revised: 30.01.2020

Version: 1.0

Date previous version: not applicable

Previous version: none

Product: **ARDROX 3966**

(ID no. 30706304/SDS_GEN_GB/EN)

Date of print 08.12.2020

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.

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