

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: 31.03.2022

Version: 3.0

Date previous version: 18.05.2021

Previous version: 2.0

Date / First version: 11.03.2019

Product: **Ardrox 9PR5, Aerosol EA**

(ID no. 30706464/SDS_GEN_GB/EN)

Date of print 01.04.2022

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

1.1. Product identifier

Ardrox 9PR5, Aerosol EA

UFI: 1WKA-73SD-W009-S4RK

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

Recommended use: Detergents

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

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

Skin Corr./Irrit. 2	H315 Causes skin irritation.
STOT SE 3	H336 May cause drowsiness or dizziness.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.
Flam. Aerosol 1	H222 Extremely flammable aerosol.
Flam. Aerosol 1	H229 Pressurized container: May burst if heated.

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	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

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.
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P264	Wash contaminated body parts thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P211	Do not spray on an open flame or other ignition source.
P273	Avoid release to the environment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary Statements (Response):

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P312	Call a POISON CENTER or physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P332 + P313	If skin irritation occurs: Get medical attention.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P391	Collect spillage.

Precautionary Statements (Storage):

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

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

2.3. Other hazards

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

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 compounds, organic solvent

Hazardous ingredients (GHS)

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

cyclohexane

Content (W/W): $\geq 1\%$ - $< 2\%$	Asp. Tox. 1
CAS Number: 110-82-7	Flam. Liq. 2
EC-Number: 203-806-2	Skin Corr./Irrit. 2
REACH registration number: 01-2119463273-41	STOT SE 3 (drowsiness and dizziness)
INDEX-Number: 601-017-00-1	Aquatic Acute 1
	Aquatic Chronic 1
	M-factor acute: 1
	M-factor chronic: 1
	H225, H315, H304, H336, H400, H410

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Content (W/W): $\geq 50\%$ - $< 75\%$	Asp. Tox. 1
CAS Number: 64742-49-0	Flam. Liq. 2
EC-Number: 927-510-4	Skin Corr./Irrit. 2
REACH registration number: 01-2119475515-33	STOT SE (Central nervous system) 3 (drowsiness and dizziness)
	Aquatic Chronic 2
	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. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

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:

If symptoms persist, seek medical advice. Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water or a special eyewash solution.

On ingestion:

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Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

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

Symptoms: dazed state, skin irritation, dizziness, 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

Endangering substances: carbon oxides

Advice: 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:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. 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.

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 disposal.

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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. Handle with care - avoid bumps, friction and impact. 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: Paper/Fibreboard, Carbon steel (Iron), tinned carbon steel (Tinplate)

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.

Storage stability:

Storage temperature: < 50 °C

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

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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))

Ceiling limit value/factor: 15 min

110-82-7: cyclohexane

TWA value 350 mg/m³ ; 100 ppm (WEL/EH 40 (UK))

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

indicative

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

Ceiling limit value/factor: 15 min

Biological limit values (BLV)

No data available.

Components with PNEC

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

64742-49-0: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

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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

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:

Respiratory protection required if exposure limit (if available) may be exceeded (Combination filter EN 14387 AX-P)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

nitrile rubber (NBR) - 0.4 mm coating thickness

butyl rubber (butyl) - 0.7 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: aerosol
under pressure
Colour: colourless

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Odour:	solvent-like
pH value:	substance/mixture is a gas
Melting point:	not determined
onset of boiling:	-40 °C
Flash point:	-4 °C
Flammability:	Extremely flammable aerosol.
Lower explosion limit:	not determined
Ignition temperature:	not determined
Vapour pressure:	(20 °C) not determined
	(50 °C) not determined
Density:	0.710 g/cm ³ (20 °C)
Solubility in water:	insoluble
Viscosity, kinematic:	(20 °C) not applicable
	(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:	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

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

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10.4. Conditions to avoid

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

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

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:

Skin contact causes irritation. Not irritating 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.

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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.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Biological degradability of hazardous substances mentioned in section 3:

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

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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 or ID number: UN1950
UN proper shipping name: AEROSOLS
Transport hazard class(es): 2.1, EHSM
Packing group: Not applicable
Environmental hazards: yes
Special precautions for user: Tunnel code: D

RID

UN number or ID number: UN1950
UN proper shipping name: AEROSOLS
Transport hazard class(es): 2.1, EHSM
Packing group: Not applicable
Environmental hazards: yes
Special precautions for user: None known

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Inland waterway transport

ADN

UN number or ID number: UN1950
 UN proper shipping name: AEROSOLS
 Transport hazard class(es): 2.1, EHSM
 Packing group: Not applicable
 Environmental hazards: yes
 Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number or ID number: UN 1950
 UN proper shipping name: AEROSOLS (contains Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)
 Transport hazard class(es): 2.1, EHSM
 Packing group: Not applicable
 Environmental hazards: yes
 Marine pollutant: YES
 Special precautions for user: None known

Air transport

IATA/ICAO

UN number or ID 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: 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.

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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. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

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: 100.0 %

VOC content: 710.0 g/l

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 28, 29, 57, 3, 75

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

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

Detergents Regulation EC 907/2006:
aliphatic hydrocarbons 30 % and more

15.2. Chemical Safety Assessment

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Chemical Safety Assessment not required

SECTION 16: Other Information

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

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
H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
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

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