

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: 21.04.2020

Version: 3.0

Date previous version: 21.03.2019

Previous version: 2.0

Product: **Ardrox 2302**

(ID no. 30714459/SDS_GEN_GB/EN)

Date of print 03.03.2021

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

1.1. Product identifier

Ardrox 2302

UFI: QWU5-V11N-Q003-J8MT

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

Recommended use: Paint stripper, Restricted to professional users.

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]

Skin Corr./Irrit. 1B

Eye Dam./Irrit. 1

Repr. 1B

STOT SE 3

Aquatic Chronic 3

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:

H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.
H335	May cause respiratory irritation.
H360D	May damage the unborn child.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P264	Wash contaminated body parts thoroughly after handling.
P281	Use personal protective equipment as required.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust or mist.
P273	Avoid release to the environment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P201	Obtain special instructions before use.

Precautionary Statements (Response):

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P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303 + P361 + P353	IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
P363	Wash contaminated clothing before reuse.
P310	Immediately call a POISON CENTER or physician.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical attention.

Precautionary Statements (Storage):

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 Regulation (EC) No 1272/2008 [CLP]

Labeling of special preparations (GHS):
Restricted to professional users.

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

Hazard determining component(s) for labelling: 2-aminoethanol, N-methyl-2-pyrrolidone

2.3. Other hazards

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

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

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

Blend based on: organic solvent

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This product contains (a) substance(s) included on the candidate list according to article 59 (1,10) of regulation EC No. 1907/2006 ('REACH') in a concentration equal or above 0.1% w/w: N-methyl-2-pyrrolidone

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

2-(2-butoxyethoxy)ethanol

Content (W/W): $\geq 20\%$ - $< 25\%$ Eye Dam./Irrit. 2
 CAS Number: 112-34-5 H319
 EC-Number: 203-961-6
 REACH registration number: 01-2119475104-44
 INDEX-Number: 603-096-00-8

2-aminoethanol

Content (W/W): $\geq 25\%$ - $< 30\%$ Acute Tox. 4 (Inhalation - vapour)
 CAS Number: 141-43-5 Acute Tox. 4 (oral)
 EC-Number: 205-483-3 Acute Tox. 4 (dermal)
 REACH registration number: 01-2119486455-28 Skin Corr./Irrit. 1B
 Eye Dam./Irrit. 1
 INDEX-Number: 603-030-00-8 STOT SE 3 (irr. to respiratory syst.)
 Aquatic Chronic 3
 H335, H314, H302 + H312 + H332, H412

Specific concentration limit:
 STOT SE 3, irr. to respiratory syst.: $\geq 5\%$

N-methyl-2-pyrrolidone

Content (W/W): $\geq 25\%$ - $< 30\%$ Skin Corr./Irrit. 2
 CAS Number: 872-50-4 Eye Dam./Irrit. 2
 EC-Number: 212-828-1 Repr. 1B (unborn child)
 REACH registration number: 01-2119472430-46 STOT SE 3 (irr. to respiratory syst.)
 H319, H315, H335, H360D
 INDEX-Number: 606-021-00-7

Specific concentration limit:
 STOT SE 3, irr. to respiratory syst.: $\geq 10\%$

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. Immediate medical attention required.

On skin contact:

Wash affected areas thoroughly with soap and water. Seek medical attention.

On contact with eyes:

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

On ingestion:

Rinse mouth immediately with water. Do not induce vomiting unless told to by a poison control center or doctor. Summon medical aid without delay.

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: May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

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

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

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

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

Unsuitable extinguishing media for safety reasons:

water jet

5.2. Special hazards arising from the substance or mixture

carbon oxides, nitrogen oxides

Hazardous decomposition products formed under fire conditions.

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5.3. Advice for fire-fighters

Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

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

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. Pick up with inert absorbent material (e.g. sand, earth etc.). Take up mechanically and collect in suitable container (adequately labelled) for disposal.

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 basic employee training to prevent/minimize exposures. Do not return residues to the storage containers. Ensure an efficient ventilation (at least one air change per hour). Provide exhaust ventilation. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with skin and eyes. Keep away from food, drink and animal feeding stuffs. Warn users about safety measures and precautions to prevent accidents.

Protection against fire and explosion:

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

7.2. Conditions for safe storage, including any incompatibilities

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

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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. Protect from frost. Keep away from heat.

Storage stability:

Storage temperature: 0 - 40 °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

112-34-5: 2-(2-butoxyethoxy)ethanol

STEL value 101.2 mg/m³ ; 15 ppm (WEL/EH 40 (UK))

TWA value 67.5 mg/m³ ; 10 ppm (WEL/EH 40 (UK))

TWA value 67.5 mg/m³ ; 10 ppm (OEL (EU))

indicative

STEL value 101.2 mg/m³ ; 15 ppm (OEL (EU))

indicative

141-43-5: 2-aminoethanol

Skin Designation (WEL/EH 40 (UK))

The substance can be absorbed through the skin.

TWA value 2.5 mg/m³ ; 1 ppm (WEL/EH 40 (UK))

STEL value 7.6 mg/m³ ; 3 ppm (WEL/EH 40 (UK))

STEL value 7.6 mg/m³ ; 3 ppm (OEL (EU))

indicative

TWA value 2.5 mg/m³ ; 1 ppm (OEL (EU))

indicative

Skin Designation (OEL (EU))

The substance can be absorbed through the skin.

872-50-4: N-methyl-2-pyrrolidone

Skin Designation (WEL/EH 40 (UK))

The substance can be absorbed through the skin.

TWA value 40 mg/m³ ; 10 ppm (WEL/EH 40 (UK))

STEL value 80 mg/m³ ; 20 ppm (WEL/EH 40 (UK))

TWA value 40 mg/m³ ; 10 ppm (OEL (EU))

indicative

STEL value 80 mg/m³ ; 20 ppm (OEL (EU))

indicative

Skin Designation (OEL (EU))

The substance can be absorbed through the skin.

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Components with PNEC

112-34-5: 2-(2-butoxyethoxy)ethanol

freshwater: 1.1 mg/l
marine water: 0.11 mg/l
intermittent release: 11 mg/l
sediment (freshwater): 4.4 mg/kg
sediment (marine water): 0.44 mg/kg
STP: 200 mg/l
oral (secondary poisoning): 56 mg/kg
soil: 0.32 mg/kg

872-50-4: N-methyl-2-pyrrolidone

freshwater: 0.25 mg/l
marine water: 0.025 mg/l
intermittent release: 5 mg/l
sediment (freshwater): 1.09 mg/kg
sediment (marine water): 0.109 mg/kg
soil: 0.0701 mg/kg
STP: 10 mg/l

141-43-5: 2-aminoethanol

freshwater: 0.07 mg/l
marine water: 0.007 mg/l
intermittent release: 0.028 mg/l
sediment (freshwater): 0.357 mg/kg
sediment (marine water): 0.0357 mg/kg
soil: 1.29 mg/kg
STP: 100 mg/l
oral (secondary poisoning):
No PNEC oral derived, as accumulation in organisms is not to be expected.

Components with DNEL

112-34-5: 2-(2-butoxyethoxy)ethanol

worker: Long-term exposure - systemic and local effects, Inhalation: 67.5 mg/m³, 10 ppm
worker: Short-term exposure - local effects, Inhalation: 101.2 mg/m³, 15 ppm
worker: Long-term exposure- systemic effects, dermal: 83 mg/kg
consumer: Long-term exposure - systemic and local effects, Inhalation: 40.5 mg/m³
consumer: Short-term exposure - local effects, Inhalation: 60.7 mg/m³
consumer: Long-term exposure- systemic effects, dermal: 50 mg/kg
consumer: Long-term exposure- systemic effects, oral: 5 mg/kg

141-43-5: 2-aminoethanol

worker: Long-term exposure- systemic effects, dermal: 3 mg/kg

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worker: Long-term exposure - systemic and local effects, Inhalation: 0.51 mg/m³

consumer: Long-term exposure- systemic effects, dermal: 1.5 mg/kg

consumer: Long-term exposure - systemic and local effects, Inhalation: 0.28 mg/m³

consumer: Long-term exposure- systemic effects, oral: 1.5 mg/kg

872-50-4: N-methyl-2-pyrrolidone

worker: Long-term exposure- systemic effects, Inhalation: 14.4 mg/m³

worker: Long-term exposure - local effects, Inhalation: 40 mg/m³

worker: Long-term exposure- systemic effects, dermal: 4.8 mg/kg

consumer: Long-term exposure- systemic effects, Inhalation: 3.6 mg/m³

consumer: Long-term exposure - local effects, Inhalation: 4.5 mg/m³

consumer: Long-term exposure- systemic effects, dermal: 2.4 mg/kg

consumer: Long-term exposure- systemic effects, oral: 0.85 mg/kg

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

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

Hand protection:

chloroprene rubber (Neoprene)

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. 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

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Odour:	specific	
pH value:		
	not applicable	
solidification temperature:		
	not determined	
onset of boiling:		
	not determined	
Flash point:	108 °C	
Flammability:	hardly combustible	
Lower explosion limit:		
	not determined	
Ignition temperature:		
	not determined	
Vapour pressure:		
	(20 °C)	
	not determined	
	(50 °C)	
	not determined	
Density:	1.045 g/cm ³	(DIN 51757)
	(20 °C)	
Viscosity, kinematic:		
	(40 °C)	
	not determined	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	

9.2. Other information

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

Miscibility with water: immiscible

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.

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10.4. Conditions to avoid

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

10.5. Incompatible materials

Substances to avoid:
strong oxidizing agents

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

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

Irritation

Assessment of irritating effects:
Corrosive! Damages skin and eyes. 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.

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Developmental toxicity

Assessment of teratogenicity:

The substance caused malformations/developmental toxicity in laboratory animals.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

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:

| *Information on: 2-aminoethanol*

| *Elimination information:*

| *> 90 % DOC reduction (21 d) (OECD 301 A (new version)) (aerobic, activated sludge, domestic)*

12.3. Bioaccumulative potential

Bioaccumulation potential:

No data available.

12.4. Mobility in soil

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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.

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

SECTION 14: Transport Information

Land transport

ADR

UN number	UN2735
UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (contains 2-AMINOETHANOL/ETHANOLAMINE)
Transport hazard class(es):	8
Packing group:	III
Environmental hazards:	no
Special precautions for user:	Tunnel code: E

RID

UN number	UN2735
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UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (contains 2-AMINOETHANOL/ETHANOLAMINE)

Transport hazard class(es): 8

Packing group: III

Environmental hazards: no

Special precautions for user:

Inland waterway transport

ADN

UN number: UN2735

UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (contains 2-AMINOETHANOL/ETHANOLAMINE)

Transport hazard class(es): 8

Packing group: III

Environmental hazards: no

Special precautions for user:

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number: UN 2735

UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (contains 2-AMINOETHANOL/ETHANOLAMINE)

Transport hazard class(es): 8

Packing group: III

Environmental hazards: no

Marine pollutant: NO

Special precautions for user:

Air transport

IATA/ICAO

UN number: UN 2735

UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (contains 2-AMINOETHANOL/ETHANOLAMINE)

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Transport hazard class(es): 8
 Packing group: III
 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, 30, 55, 3

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

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15.2. Chemical Safety Assessment

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

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

SECTION 16: Other Information

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

Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Repr.	Reproductive toxicity
STOT SE	Specific target organ toxicity — single exposure
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Acute Tox.	Acute toxicity
H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.
H335	May cause respiratory irritation.
H360D	May damage the unborn child.
H319	Causes serious eye irritation.
H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled
H315	Causes skin irritation.

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.

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

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