



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 24/4/2020

Version: 4

Language: en-GB,IE

Date of print: 28/8/2020

Protective Coating Series AR-PC 503 & AR-PC 504

Material number AR-PC 503 & AR-PC 504

Page:

1 of 13

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

1.1 Product identifier

Trade name: Protective Coating Series AR-PC 503 & AR-PC 504

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

General use: Intermediate for electronic industry

1.3 Details of the supplier of the safety data sheet

Company name: Allresist
Gesellschaft für chemische Produkte zur Mikrostrukturierung mbH
Street/POB-No.: Am Biotop 14
Postal Code, city: 15344 Strausberg
WWW: www.allresist.de
E-mail: info@allresist.de
Telephone: +49 (0)33 41-35 93-0
Telefax: +49 (0)33 41-35 93-29
Department responsible for information:
Frau Dr. Zimmermann, Email: produktion@allresist.de

1.4 Emergency telephone number

Telephone: +49 (0)33 41-35 93-0
Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Flam. Liq. 3; H226 Flammable liquid and vapour.
Acute Tox. 4; H332 Harmful if inhaled.
Skin Irrit. 2; H315 Causes skin irritation.
Skin Sens. 1; H317 May cause an allergic skin reaction.
Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (CLP)



Signal word:

Warning

Hazard statements: H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H411 Toxic to aquatic life with long lasting effects.



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Protective Coating Series AR-PC 503 & AR-PC 504

Material number AR-PC 503 & AR-PC 504

Page:

2 of 13

Precautionary Statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P312	Call a POISON CENTER/doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P235	Store in a well-ventilated place. Keep cool.

Special labelling

Text for labelling: Contains Chlorobenzene and Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

2.3 Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided. Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher doses may lead to a narcotic effect. Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions:

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119432722-45-xxxx EC No. 203-628-5 CAS 108-90-7	Chlorobenzene	80 - 95 %	Flam. Liq. 3; H226. Acute Tox. 4; H332. Skin Irrit. 2; H315. Aquatic Chronic 2; H411.
EC No. 500-033-5 CAS 25068-38-6	Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	< 3 %	Skin Irrit. 2; H315. Eye Irrit. 2; H319. Skin Sens. 1; H317. Aquatic Chronic 2; H411.

Full text of H- and EUH-statements: see section 16.



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Protective Coating Series AR-PC 503 & AR-PC 504

Material number AR-PC 503 & AR-PC 504

Page:

3 of 13

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information: IF exposed or concerned: Get medical advice/attention.
If medical advice is needed, have product container or label at hand. First aider: Pay attention to self-protection!
- In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing.
If victim is at risk of losing consciousness, position and transport on their side.
Immediately get medical attention.
- Following skin contact: Immediately clean with water and soap followed by thorough rinsing. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.
- After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Harmful if inhaled.
Causes skin irritation. May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media:
Foam, extinguishing powder, water spray jet, carbon dioxide.
In case of large fires: Foam or water spray jet.

- Extinguishing media which must not be used for safety reasons:
Full water jet

5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapour. With air, vapours form potentially explosive mixtures, which are heavier than air. Vapours may proceed on the ground over great distances and cause fire and backflashes.

May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: Hydrogen chloride, phosgene, aldehydes, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

- Special protective equipment for firefighters:
Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.



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Revision date: 24/4/2020

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Protective Coating Series AR-PC 503 & AR-PC 504

Material number AR-PC 503 & AR-PC 504

Page:

4 of 13

Additional information: Hazchem-Code: 2Y
Heating will lead to pressure increase: Danger of bursting and explosion. Keep containers cool with water spray.
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Do not allow fire water to penetrate into surface or ground water.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so. If possible, eliminate leakage. Keep unprotected people away.
Avoid contact with the substance. Avoid aerosol and mist formation. Do not breathe vapour/aerosol/mist.
Ensure adequate ventilation, especially in confined areas.
Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.
Cordon off downwind area at risk and warn inhabitants.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. Danger of explosion!
If necessary notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Beware of reignition. Thoroughly clean surrounding area.
In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.
Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid aerosol and mist formation. Do not breathe vapour/aerosol/mist.
Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.
Work place should be equipped with a shower and an eye rinsing apparatus.



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according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 24/4/2020

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Date of print: 28/8/2020

Protective Coating Series AR-PC 503 & AR-PC 504

Material number AR-PC 503 & AR-PC 504

Page:

5 of 13

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.
Use only explosion-protected equipment/instruments. Do not weld.
In partially filled containers explosive mixtures may form.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight. Store containers in upright position.
Storage temperature 10 - 25 °C.

Hints on joint storage:

Do not store together with oxidizing agents, strong acids, strong alkalis or amines.
Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
108-90-7	Chlorobenzene	Europe: IOELV: STEL	70 mg/m ³ ; 15 ppm
		Europe: IOELV: TWA	23 mg/m ³ ; 5 ppm
		Great Britain: WEL-STEL	14 mg/m ³ ; 3 ppm (may be absorbed through the skin)
		Great Britain: WEL-TWA	4.7 mg/m ³ ; 1 ppm (may be absorbed through the skin)
		Ireland: 15 minutes	70 mg/m ³ ; 15 ppm
Ireland: 8 hours	23 mg/m ³ ; 5 ppm		

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
108-90-7	Chlorobenzene	Great Britain: BMV, urine	5 mmol/mol creatinine	4-Chlorocatechol	end of exposure or end of shift

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.

Personal protection equipment

Occupational exposure controls

Respiratory protection:

When aerosols and vapours form: Use appropriate respiratory protection.
Respiratory protection must be worn whenever the WEL levels have been exceeded.
Use filter type A (= against vapours of organic substances) according to EN 14387.



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 24/4/2020

Version: 4

Language: en-GB,IE

Date of print: 28/8/2020

Protective Coating Series AR-PC 503 & AR-PC 504

Material number AR-PC 503 & AR-PC 504

Page:

6 of 13

Hand protection:	Protective gloves according to EN 374. Glove material: Fluororubber (Viton) - Layer thickness: 0.7 mm. Breakthrough time: >480 min. Unsuitable materials: Nitrile rubber, butyl caoutchouc (butyl rubber), fluoro rubber. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to EN 166.
Body protection:	Flame retardant, antistatic and chemical resistant protective clothing.
General protection and hygiene measures:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour/aerosol/mist. Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse. When using do not eat or drink. Wash hands before breaks and after work. Work place should be equipped with a shower and an eye rinsing apparatus.

Environmental exposure controls

Do not allow to enter into ground-water, surface water or drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid
Odour:	characteristic
Odour threshold:	No data available
pH value:	No data available
Melting point/freezing point:	-46 °C (Chlorobenzene)
Initial boiling point and boiling range:	132 °C (Chlorobenzene)
Flash point/flash point range:	28 °C (c.c., Chlorobenzene)
Evaporation rate:	No data available
Flammability:	Flammable liquid and vapour.
Explosion limits:	LEL (Lower Explosion Limit): 1.30 Vol-% (Chlorobenzene) UEL (Upper Explosive Limit): 11.00 Vol-% (Chlorobenzene)
Vapour pressure:	at 20 °C: 11.73 hPa (Chlorobenzene)
Vapour density:	No data available
Density:	No data available
Water solubility:	at 20 °C: 0.207 g/L (Chlorobenzene)
Partition coefficient: n-octanol/water:	3 log P(o/w) (Chlorobenzene) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	Vapours can form explosive mixtures with air.
Oxidizing characteristics:	No data available



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 24/4/2020

Version: 4

Language: en-GB,IE

Date of print: 28/8/2020

Protective Coating Series AR-PC 503 & AR-PC 504

Material number AR-PC 503 & AR-PC 504

Page: 7 of 13

9.2 Other information

Ignition temperature: 590 °C (Chlorobenzene)

SECTION 10: Stability and reactivity

10.1 Reactivity

Flammable liquid and vapour. Vapours can form explosive mixtures with air.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Heating will lead to pressure increase: Danger of bursting and explosion.

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.
Protect from direct sunlight.

10.5 Incompatible materials

Oxidising agent, strong acids, strong alkalis, amines

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available



SAFETY DATA SHEET

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Revision date: 24/4/2020

Version: 4

Language: en-GB,IE

Date of print: 28/8/2020

Protective Coating Series AR-PC 503 & AR-PC 504

Material number AR-PC 503 & AR-PC 504

Page:

8 of 13

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.
ATEmix (calculated): 2000 mg/kg < ATE <= 5000 mg/kg.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): 2000 mg/kg < ATE <= 5000 mg/kg.

Acute toxicity (inhalative): Acute Tox. 4; H332 = Harmful if inhaled.
ATEmix (calculated, vapour): 10 mg/L < ATE <= 20 mg/L.

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Other information: Information about Chlorobenzene:
LD50 Rat, oral: > 2000 mg/kg.
LC50 Rat, inhalative: 29.7 mg/L/4h.

Symptoms

Systemic effects: CNS disorders, tachycardia, blood pressure drop, agitation, spasms, ataxia (coordination impairment), narcosis, liver and kidney damage.

In case of inhalation:
Headache, mucous membrane irritation, fatigue, unconsciousness, narcosis.
Risk of resorption.

In case of ingestion: May be harmful if swallowed.
Pain, vomiting (Danger of aspiration!), diarrhoea.

After contact with skin: Defatting properties may induce eczema.

After eye contact: May cause irritations.



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Revision date: 24/4/2020

Version: 4

Language: en-GB,IE

Date of print: 28/8/2020

Protective Coating Series AR-PC 503 & AR-PC 504

Material number AR-PC 503 & AR-PC 504

Page:

9 of 13

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

Information about Chlorobenzene:

Algae toxicity:

IC50 Pseudokirchneriella subcapitata (green algae): 11.4 mg/L/72h (OECD 201).

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 0.59 mg/L/48h (OECD 202).

Fish toxicity:

LC50 Lepomis macrochirus (bluegill): 4.5 - 7.4 mg/L/96h.

Information about Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700):

Algae toxicity:

EC50 Scenedesmus capricornutum: 11 mg/L/72h

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 1.8 mg/L/48h.

Fish toxicity:

LC50 Leuciscus idus: 2 mg/L/96h.

12.2 Persistence and degradability

Further details:

Biodegradability:

Information about Chlorobenzene:

15 % / 28 d (OECD 301 F). Not easily degradable.

Information about Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700):

5 % / 28 d (OECD 301 F). Not easily degradable.

Effects in sewage plants: Information about Chlorobenzene:

Bacterial toxicity:

EC50 activated sludge: 140 mg/L/30min (OECD 209).

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

3 log P(o/w) (Chlorobenzene)

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

AOX reference:

The product contains organically bound halogen. Thus it may add to the AOX value.

General information:

Do not allow to enter into ground-water, surface water or drains.



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 24/4/2020
Version: 4
Language: en-GB,IE
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Protective Coating Series AR-PC 503 & AR-PC 504

Material number AR-PC 503 & AR-PC 504

Page: 10 of 13

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 16 03 05* = Organic wastes containing hazardous substances
* = Evidence for disposal must be provided.

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle empty containers with care. Incineration may cause explosion. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:
UN 1134

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
UN 1134, CHLOROBENZENE mixture

14.3 Transport hazard class(es)

ADR/RID: Class 3, Code: F1
IMDG: Class 3, Subrisk -
IATA-DGR: Class 3



14.4 Packing group

ADR/RID, IMDG, IATA-DGR:
III

14.5 Environmental hazards

Marine pollutant: yes



14.6 Special precautions for user

Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 30, UN number UN 1134
Hazard label: 3
Limited quantities: 5 L
EQ: E1
Contaminated packaging - Instructions: P001 IBC03 LP01 R001
Special provisions for packing together: MP19
Portable tanks - Instructions: T2
Portable tanks - Special provisions: TP1
Tank coding: LGBF
Tunnel restriction code: D/E



SAFETY DATA SHEET

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Revision date: 24/4/2020

Version: 4

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Protective Coating Series AR-PC 503 & AR-PC 504

Material number AR-PC 503 & AR-PC 504

Page: 11 of 13

Sea transport (IMDG)

EmS:	F-E, S-D
Special provisions:	-
Limited quantities:	5 L
Excepted quantities:	E1
Contaminated packaging - Instructions:	P001, LP01
Contaminated packaging - Provisions:	-
IBC - Instructions:	IBC03
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T2
Tank instructions - Provisions:	TP1
Stowage and handling:	Category A.
Properties and observations:	Colourless liquid with an almond-like odour. Flashpoint: 29°C c.c. Explosive limits: 1.3 to 11%. Immiscible with water.
Segregation group:	10

Air transport (IATA)

Hazard label:	Flamm. liquid
Excepted Quantity Code:	E1
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y344 - Max. Net Qty/Pkg. 10 L
Passenger and Cargo Aircraft:	Pack.Instr. 355 - Max. Net Qty/Pkg. 60 L
Cargo Aircraft only:	Pack.Instr. 366 - Max. Net Qty/Pkg. 220 L
Emergency Response Guide-Code (ERG):	3L

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: 2Y
No data available

National regulations - EC member states

Volatile organic compounds (VOC):
max. 91 % by weight

Labelling of packaging with <= 125mL content



Signal word: **Warning**

Hazard statements: H317 May cause an allergic skin reaction.

Precautionary Statements:
P261 Avoid breathing vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection.
P362+P364 Take off contaminated clothing and wash it before reuse.



SAFETY DATA SHEET

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Protective Coating Series AR-PC 503 & AR-PC 504

Material number AR-PC 503 & AR-PC 504

Page:

12 of 13

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3, 40

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: P5c, E2.

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

H226 = Flammable liquid and vapour.

H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

H319 = Causes serious eye irritation.

H332 = Harmful if inhaled.

H411 = Toxic to aquatic life with long lasting effects.



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Protective Coating Series AR-PC 503 & AR-PC 504

Material number AR-PC 503 & AR-PC 504

Page: 13 of 13

Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL: Occupational Exposure Limit Value
AOX: Adsorbable Organic Halogens
AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
CNS: Central Nervous System
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC50: Effective Concentration 50%
EC: European Community
EN: European Standard
EU: European Union
IATA: International Air Transport Association
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50: Inhibition Concentration 50%
IMDG Code: International Maritime Dangerous Goods Code
LC50: Median lethal concentration
LD50: Lethal dose 50%
LEL: Lower Explosion Limit
log P(o/w): Partition coefficient: octanol/water
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
TLV: Threshold Limit Value
UN: United Nations
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit
CNS: Central Nervous System

Reason of change: Changes in section 8: Occupational exposure limit values, biological limit values (Germany)
Changes in section 15: Regulatory information
General revision

Date of first version: 16/10/2017

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.