



SAFETY DATA SHEET

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

Revision date: 11/3/2020
Version: 4
Language: en-GB,IE
Date of print: 17/3/2020

Positive Photoresist SX AR-P 3740/4.9

Material number SX AR-P 3740/4.9

Page: 1 of 13

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

1.1 Product identifier

Trade name: Positive Photoresist SX AR-P 3740/4.9

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:
Herr Claus Kramer, Email: Claus.Kramer@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.
Skin Irrit. 2; H315 Causes skin irritation.
Skin Sens. 1; H317 May cause an allergic skin reaction.
STOT SE 3; H336 May cause drowsiness or dizziness.
(EUH066) Repeated exposure may cause skin dryness or cracking.

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.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.



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Positive Photoresist SX AR-P 3740/4.9

Material number SX AR-P 3740/4.9

Page: 2 of 13

Precautionary Statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water/soap.
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 n-Butyl acetate, Propyl 3,4,5-trihydroxybenzoate 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:



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Positive Photoresist SX AR-P 3740/4.9

Material number SX AR-P 3740/4.9

Page: 3 of 13

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119475791-29-xxxx EC No. 203-603-9 CAS 108-65-6	2-Methoxy-1-methylethyl acetate	40 - 50 %	Flam. Liq. 3; H226.
REACH 01-2119485493-29-xxxx EC No. 204-658-1 CAS 123-86-4	n-Butyl acetate	20 - 30 %	Flam. Liq. 3; H226. STOT SE 3; H336. (EUH066).
EC No. 270-931-7 CAS 68510-93-0	Naphthoquinone diazide	< 10 %	Flam. Sol. 2; H228. Self-react. CD; H242. Skin Irrit. 2; H315. Aquatic Chronic 3; H412.
EC No. 204-498-2 CAS 121-79-9	Propyl 3,4,5-trihydroxybenzoate	1 - 2 %	Acute Tox. 4; H302. Skin Sens. 1; H317.
EC No. 214-540-1 CAS 1143-72-2	2,3,4-trihydroxybenzophenone	< 2 %	Skin Irrit. 2; H315. Eye Irrit. 2; H319. STOT SE 3; H335. Aquatic Chronic 3; H412.
EC No. 500-033-5 CAS 25068-38-6	Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700)	< 1 %	Skin Irrit. 2; H315. Eye Irrit. 2; H319. Skin Sens. 1; H317. Aquatic Chronic 2; H411.
EC No. 215-293-2 CAS 1319-77-3	Cresol-isomeric mixture	< 0.25 %	Acute Tox. 3; H301. Acute Tox. 3; H311. Skin Corr. 1B; H314.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse. First aider: Pay attention to self-protection!
In case of inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. 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. Subsequently 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. Seek medical attention.



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Positive Photoresist SX AR-P 3740/4.9

Material number SX AR-P 3740/4.9

Page: 4 of 13

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.

Inhaling can lead to irritations of the respiratory tract and mucous membrane.

Higher doses may lead to a narcotic effect.

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:

Extinguishing powder, water spray jet or carbon dioxide.

In case of large fires: alcohol resistant 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: nitrogen oxides, sulphur oxides, aromatic hydrocarbons, azides, 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.

Additional information: Hazchem-Code: •3Y

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

Do not breathe mist/vapours/spray. Avoid contact with the substance.

If possible, eliminate leakage. Provide adequate ventilation.

Wear appropriate protective equipment. Keep unprotected people away.

Take off contaminated clothing and wash it before reuse.



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Positive Photoresist SX AR-P 3740/4.9

Material number SX AR-P 3740/4.9

Page: 5 of 13

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. Danger of explosion!

In case of release, notify competent authorities.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal. In case of greater quantities:

Collect mechanically (use only explosion-proof equipment when pumping out).

Never return spills in original containers for re-use.

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. Do not breathe mist/vapours/spray. 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.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Take precautionary measures against static discharge.

Use grounding equipment. 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 and in a well-ventilated place.

Keep container dry. Keep only in the original container.

Protect from heat and direct sunlight.

Store containers in upright position.

Qualified materials: steel, polypropylene.

Unsuitable materials: Copper, zinc.

Storage temperature: 10 °C up to 18 °C.

Hints on joint storage:

Do not store together with: strong oxidizing agents, acids, alkalis.

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.



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Positive Photoresist SX AR-P 3740/4.9

Material number SX AR-P 3740/4.9

Page:

6 of 13

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
108-65-6	2-Methoxy-1-methylethyl acetate	Europe: IOELV: STEL	550 mg/m ³ ; 100 ppm (may be absorbed through the skin)
		Europe: IOELV: TWA	275 mg/m ³ ; 50 ppm (may be absorbed through the skin)
		Great Britain: WEL-STEL	548 mg/m ³ ; 100 ppm (may be absorbed through the skin)
		Great Britain: WEL-TWA	274 mg/m ³ ; 50 ppm (may be absorbed through the skin)
		Ireland: 15 minutes	550 mg/m ³ ; 100 ppm (may be absorbed through the skin)
		Ireland: 8 hours	275 mg/m ³ ; 50 ppm (may be absorbed through the skin)
123-86-4	n-Butyl acetate	Europe: IOELV: STEL	723 mg/m ³ ; 150 ppm
		Europe: IOELV: TWA	241 mg/m ³ ; 50 ppm
		Great Britain: MEL/OES-STEL	966 mg/m ³ ; 200 ppm
		Great Britain: MEL/OES-TWA	724 mg/m ³ ; 150 ppm
		Ireland: 15 minutes	950 mg/m ³ ; 200 ppm
		Ireland: 8 hours	710 mg/m ³ ; 150 ppm
1319-77-3	Cresol-isomeric mixture	Europe: IOELV: TWA	22 mg/m ³ ; 5 ppm
		Ireland: 8 hours	22 mg/m ³ ; 5 ppm (may be absorbed through the skin)

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.

Hand protection: Protective gloves according to EN 374. Glove material: butyl caoutchouc (butyl rubber)-Layer thickness: 0.5 mm. Breakthrough time: >480 min. 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.



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Positive Photoresist SX AR-P 3740/4.9

Material number SX AR-P 3740/4.9

Page: 7 of 13

General protection and hygiene measures:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing.

Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

When using do not eat or drink. Wash hands thoroughly after handling.

Work place should be equipped with a shower and an eye rinsing apparatus.

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 Colour: brown-red
Odour:	ester-like
Odour threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	126 °C (n-Butyl acetate)
Flash point/flash point range:	35 °C (c.c.)
Evaporation rate:	No data available
Flammability:	Flammable liquid and vapour.
Explosion limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	at 20 °C: 0.967 g/mL (2-Methoxy-1-methylethyl acetate)
Water solubility:	partially soluble
Partition coefficient: n-octanol/water:	No data available
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

9.2 Other information

Ignition temperature: 315 °C (2-Methoxy-1-methylethyl acetate)

SECTION 10: Stability and reactivity

10.1 Reactivity

Flammable liquid and vapour. On contact with air, potentially explosive mixtures may develop.

10.2 Chemical stability

Stable under recommended storage conditions.



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Positive Photoresist SX AR-P 3740/4.9

Material number SX AR-P 3740/4.9

Page: 8 of 13

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

Strong oxidizing agents, acids, alkalis. Attacks many plastics and rubbers.

10.6 Hazardous decomposition products

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

Thermal decomposition: No data available

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): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

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

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

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): STOT SE 3; H336 = May cause drowsiness or dizziness.

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

Aspiration hazard: Lack of data.



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Positive Photoresist SX AR-P 3740/4.9

Material number SX AR-P 3740/4.9

Page: 9 of 13

Other information: Information about 2-Methoxy-1-methylethyl acetate:
LD50 Rat, oral: > 8500 mg/kg
LC50 Rat, inhalative: > 35.7 mg/L 4h
Information about n-Butyl acetate:
LD50 Rat, oral: 10760 - 12789 mg/kg (OECD 423)
LD50 Rabbit, dermal: > 14112 mg/kg (OECD 402)
LC50 Rat, inhalative: 21 mg/L/4h (OECD 403)
Information about Propyl 3,4,5-trihydroxybenzoate:
LD50 Rat, oral: 2100 mg/kg
LD50 Rabbit, dermal: 1700 mg/kg
Information about Cresol-isomeric mixture:
LD50 Rat, oral: 1454 mg/kg
LD50 Rabbit, dermal: 242 mg/kg

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about 2-Methoxy-1-methylethyl acetate:
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 408 mg/L/48h. (OECD 202)
Fish toxicity:
LC50 Oncorhynchus mykiss: 130 mg/L/96h (OECD 203)
Algae toxicity:
EC50 Pseudokirchneriella subcapitata (green algae): > 1000 mg/L/96h
Information about Naphthoquinone diazide:
Fish toxicity:
LC50 zebrafish: 22 - 50 mg/L/96h.

12.2 Persistence and degradability

Further details: Biodegradability:
Information about 2-Methoxy-1-methylethyl acetate: 83 % /10 d (OECD 301 F).
Easily bio-degradable

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

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



SAFETY DATA SHEET

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Positive Photoresist SX AR-P 3740/4.9

Material number SX AR-P 3740/4.9

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 1993

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
UN 1993, FLAMMABLE LIQUID, N.O.S.
(2-Methoxy-1-methylethyl acetate and n-Butyl acetate)

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: no

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 30, UN number UN 1993
Hazard label: 3
Special provisions: 274 601
Limited quantities: 5 L
EQ: E1
Contaminated packaging - Instructions: P001 IBC03 LP01 R001
Special provisions for packing together: MP19
Portable tanks - Instructions: T4
Portable tanks - Special provisions: TP1 TP29
Tank coding: LGBF
Tunnel restriction code: D/E



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Positive Photoresist SX AR-P 3740/4.9

Material number SX AR-P 3740/4.9

Page: 11 of 13

Sea transport (IMDG)

EmS: F-E, S-E
Special provisions: 223, 274, 955
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: T4
Tank instructions - Provisions: TP1, TP29
Stowage and handling: Category A.
Properties and observations: -
Segregation group: none

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
Special provisions: A3
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: •3Y
No data available

National regulations - EC member states

Volatile organic compounds (VOC):
approx. 80 % by weight = 880 g/L

Labelling of packaging with <= 125mL content



Signal word: **Warning**

Hazard statements: H317 May cause an allergic skin reaction.
EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary Statements: P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water/soap.
P362+P364 Take off contaminated clothing and wash it before reuse.



SAFETY DATA SHEET

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Positive Photoresist SX AR-P 3740/4.9

Material number SX AR-P 3740/4.9

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.

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.

H228 = Flammable solid.

H242 = Heating may cause a fire.

H301 = Toxic if swallowed.

H302 = Harmful if swallowed.

H311 = Toxic in contact with skin.

H314 = Causes severe skin burns and eye damage.

H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

H319 = Causes serious eye irritation.

H335 = May cause respiratory irritation.

H336 = May cause drowsiness or dizziness.

H411 = Toxic to aquatic life with long lasting effects.

H412 = Harmful to aquatic life with long lasting effects.

EUH066 = Repeated exposure may cause skin dryness or cracking.



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Positive Photoresist SX AR-P 3740/4.9

Material number SX AR-P 3740/4.9

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

AS/NZS: Australian Standards/New Zealand Standards

CAS: Chemical Abstracts Service

CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

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

IMDG Code: International Maritime Dangerous Goods Code

LC50: Median lethal concentration

LD50: Lethal dose 50%

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

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

STOT SE: Specific target organ toxicity - single exposure

TLV: Threshold Limit Value

vPvB: Very persistent and very bioaccumulative

WEL: Workplace Exposure Limit

Reason of change: Changes in section 9: Flash point

Date of first version: 15/4/2019

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.