



SAFETY DATA SHEET

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

Revision date: 23/1/2019

Version: 8

Language: en-GB,IE

Date of print: 28/8/2020

Protective Coating SX AR-PC 5000/40 & 5000/41

Material number SX AR-PC 5000/40 & 5000/41

Page: 1 of 13

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

1.1 Product identifier

Trade name: Protective Coating SX AR-PC 5000/40 & 5000/41

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

General use: Intermediate for electronic industry
For industrial purposes only

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. 2; H225 Highly flammable liquid and vapour.
STOT RE 2; H373 May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.

2.2 Label elements

Labelling (CLP)



Signal word:

Danger

Hazard statements: H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H373 May cause damage to organs through prolonged or repeated exposure.



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Protective Coating SX AR-PC 5000/40 & 5000/41

Material number SX AR-PC 5000/40 & 5000/41

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.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- P331 Do NOT induce vomiting.
- P403+P235 Store in a well-ventilated place. Keep cool.

Special labelling

Text for labelling: Contains Ethylbenzene.

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: Hydrocarbon waxes, solution:

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 202-849-4 CAS 100-41-4	Ethylbenzene	40 - 60 %	Flam. Liq. 2; H225. Acute Tox. 4; H332. STOT RE 2; H373. Asp. Tox. 1; H304.

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. First aider: Pay attention to self-protection!
- In case of inhalation: Move victim to fresh air. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. Seek medical attention.
- Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Take off immediately all 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. Subsequently consult an ophthalmologist.



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Protective Coating SX AR-PC 5000/40 & 5000/41

Material number SX AR-PC 5000/40 & 5000/41

Page: 3 of 13

After swallowing: Rinse mouth and drink large quantities of water.
Do not induce vomiting. Danger of aspiration! Immediately get medical attention.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Harmful if inhaled. May be fatal if swallowed and enters airways. May cause damage to organs through prolonged or repeated exposure.
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

Due to risk of aspiration gastric lavage may only be applied under endotracheal intubation.
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, Extinguishing powder, foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet.

5.2 Special hazards arising from the substance or mixture

Highly 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. On heating or in case of fire toxic gases may form.
Furthermore, there may develop: 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: •3YE

Heating will lead to pressure increase: Danger of bursting and explosion. Move undamaged containers from immediate hazard area if it can be done safely. 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. Keep unprotected people away. Wear appropriate protective equipment. Avoid contact with the substance. Provide adequate ventilation.

Do not breathe vapour/aerosol. If possible, eliminate leakage. Take off immediately all contaminated clothing and wash it before reuse. Cordon off downwind area at risk and warn inhabitants.



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Revision date: 23/1/2019

Version: 8

Language: en-GB,IE

Date of print: 28/8/2020

Protective Coating SX AR-PC 5000/40 & 5000/41

Material number SX AR-PC 5000/40 & 5000/41

Page: 4 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

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 re-ignition. 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 contact with skin, eyes, and clothing. Do not breathe vapour/aerosol. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Avoid the formation of aerosol. Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Use explosion-proof electrical/ventilating/lighting equipment. 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 only in original container. Protect from heat and direct sunlight. Store containers in upright position. Explosion protection required. Protect from humidity and water.

Unsuitable materials: May attack plastics.

steel (uncoated), refined steel.

Storage temperature: 15 - 22 °C.

Hints on joint storage:

Do not store together with strong oxidizing agents.

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.



SAFETY DATA SHEET

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Revision date: 23/1/2019

Version: 8

Language: en-GB,IE

Date of print: 28/8/2020

Protective Coating SX AR-PC 5000/40 & 5000/41

Material number SX AR-PC 5000/40 & 5000/41

Page: 5 of 13

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
100-41-4	Ethylbenzene	Europe: IOELV: STEL	884 mg/m ³ ; 200 ppm (may be absorbed through the skin)
		Europe: IOELV: TWA	442 mg/m ³ ; 100 ppm (may be absorbed through the skin)
		Great Britain: WEL-STEL	552 mg/m ³ ; 125 ppm (may be absorbed through the skin)
		Great Britain: WEL-TWA	441 mg/m ³ ; 100 ppm (may be absorbed through the skin)
		Ireland: 15 minutes	884 mg/m ³ ; 200 ppm (may be absorbed through the skin)
		Ireland: 8 hours	442 mg/m ³ ; 100 ppm (may be absorbed through the skin)

DNEL/DMEL: Information about Ethylbenzene:
DNEL long-term, workers, inhalative: 17.5 ppm (77 mg/m³).
DNEL short-term, workers, inhalative: 67 ppm (293 mg/m³).
DNEL long-term, workers, dermal: 180 mg/kg bw/d.

PNEC: Information about Ethylbenzene:
PNEC water (freshwater): 0.1 mg/L.
PNEC water (marine water): 0.01 mg/L.
PNEC water (intermittent release): 0.1 mg/L.
PNEC sediment (freshwater): 13.7 mg/kg dwt.
PNEC sediment (marine water): 0.0614 mg/kg dwt.
PNEC soil: 2.68 mg/kg dwt.
PNEC sewage treatment plant: 9.6 mg/L.

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: 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. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: Protective gloves according to EN 374.
During full contact:
Glove material: Fluororubber (Viton) - Layer thickness: 0.7 mm
Breakthrough time: > 480 min.
During splash contact:
Glove material: Nitrile rubber - Layer thickness: 0.4 mm
Breakthrough time: > 10 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.



SAFETY DATA SHEET

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

Revision date: 23/1/2019

Version: 8

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Protective Coating SX AR-PC 5000/40 & 5000/41

Material number SX AR-PC 5000/40 & 5000/41

Page: 6 of 13

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. Do not get in eyes, on skin, or on clothing. Contaminated work clothing should not be allowed out of the workplace. Take off immediately all contaminated clothing and wash it before reuse.

When using do not eat, drink or smoke. 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 Colour: black
Odour:	characteristic
Odour threshold:	Information about Ethylbenzene: Odour threshold: 20 ppm
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	136 °C (Ethylbenzene)
Flash point/flash point range:	15 °C (c.c.)
Evaporation rate:	No data available
Flammability:	Highly flammable liquid and vapour.
Explosion limits:	LEL (Lower Explosion Limit): 1.00 Vol-% (Ethylbenzene) UEL (Upper Explosive Limit): 7.80 Vol-% (Ethylbenzene)
Vapour pressure:	at 20 °C: 9.5 hPa (Ethylbenzene)
Vapour density:	approx. (Air = 1) 3.7 (Ethylbenzene)
Density:	approx. 0.95 g/mL
Solubility:	soluble in organic solvents, e.g. methanol, n-Hexane, ethanol, benzene, chloroform, diethyl ether
Water solubility:	at 20 °C: 0.2 g/L (Ethylbenzene)
Partition coefficient: n-octanol/water:	at 25 °C: 3.15 log P(o/w) (Ethylbenzene) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Auto-ignition temperature:	> 400 °C (Asphalt, oxidized)
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: 430 °C (Ethylbenzene)



SAFETY DATA SHEET

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Revision date: 23/1/2019

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Date of print: 28/8/2020

Protective Coating SX AR-PC 5000/40 & 5000/41

Material number SX AR-PC 5000/40 & 5000/41

Page: 7 of 13

SECTION 10: Stability and reactivity

10.1 Reactivity

Highly 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.

Reacts violently with strong oxidizing agents.

With exposure to acids, product will release hydrogen sulfide.

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, water, rubber, various plastics.

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: 23/1/2019

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Language: en-GB,IE

Date of print: 28/8/2020

Protective Coating SX AR-PC 5000/40 & 5000/41

Material number SX AR-PC 5000/40 & 5000/41

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: > 5000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

ATEmix calculated: > 5000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

ATEmix calculated: > 20 mg/L/4h

Skin corrosion/irritation: Lack of data.

Ethylbenzene: Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Ethylbenzene: Sensitization: human experience negative.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Ethylbenzene:

Ames test Salmonella typhimurium negative (OECD 471).

Chromosomal aberrations mammalian cells in-vitro negative (OECD 473).

Chromosomal aberrations mammalian cells in-vivo negative (OECD 474).

gene-mutations mammalian cells in-vitro positive and negative (OECD 476).

Sister chromatid exchange mammalian cells negative (OECD 479).

Carcinogenicity: Lack of data.

Ethylbenzene:

Rat-longterm animal experiment (NTP):

750 ppm group: increased tumor incidences.

250 ppm group: No visible effects.

Based on available data, the classification criteria are not met.

Reproductive toxicity: Lack of data.

Ethylbenzene: Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

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

Specific target organ toxicity (repeated exposure): STOT RE 2; H373 = May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Asp. Tox. 1; H304 = May be fatal if swallowed and enters airways.

Other information: Information about Ethylbenzene:

LD50 Rat, oral: 3500 mg/kg

LD50 Rabbit, dermal: 15400 mg/kg

LC50 Rat, inhalative (vapours): 17.2 mg/L/4h

Information about Asphalt, oxidized:

LD50 Rat, oral: > 5000 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 2000 mg/kg (OECD 402)



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Revision date: 23/1/2019

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Protective Coating SX AR-PC 5000/40 & 5000/41

Material number SX AR-PC 5000/40 & 5000/41

Page: 9 of 13

Symptoms

When swallowed and vomited immediately, aspiration into the lungs may occur resulting in chemical pneumonia or suffocation. Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation). product may release Hydrogen Sulphide.

Other symptoms: spasms, headache, dizziness, drowsiness, fatigue, nausea, unconsciousness. After absorption of large quantities: CNS disorders, narcosis.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Information about Ethylbenzene:

Algae toxicity:

EC50 Pseudokirchneriella subcapitata (green algae): 8.8 mg/L/96h

NOEC Pseudokirchneriella subcapitata (green algae): 3.4 mg/L/96h (calculated)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 1.8 - 2.4 mg/L/48h (US-EPA).

NOEC Ceriodaphnia dubia: 1.0 mg/L/7d (US-EPA).

Fish toxicity:

LC50 Oncorhynchus mykiss: 4,2 mg/L/96h (OECD 203).

LC50 Menidia menidia: 5.1 mg/L/96h (US-EPA).

NOEC Menidia menidia: 3.3 mg/L/96h (US-EPA).

Acute toxicity marine invertebrates:

LC50 Mysidopsis bahia: 2.6 mg/L/96h (US-EPA).

12.2 Persistence and degradability

Further details:

Information about Ethylbenzene:

Abiotic degradation:

Atmospheric compartment:

Indirect photodegradation by reaction with OH radicals.

Half-life time approx. 2.3 d.

Biodegradation:

70 - 80 %/ 28 d (ISO 14593). Readily biodegradable.

81 - 100 %/14 d (OECD 302 C). Inherently biodegradable.

Does not dissolve in water. Floats on water surface.

12.3 Bioaccumulative potential

Information about Ethylbenzene: Bioaccumulative potential low.

Secondary poisoning via the food chain is unlikely to occur.

Bioconcentration factor (BCF):

91 (Ethylbenzene)

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available



SAFETY DATA SHEET

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

Revision date: 23/1/2019

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Date of print: 28/8/2020

Protective Coating SX AR-PC 5000/40 & 5000/41

Material number SX AR-PC 5000/40 & 5000/41

Page: 10 of 13

12.6 Other adverse effects

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

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: Dispose of waste according to applicable legislation.
Do not empty into drains.

Contaminated packaging

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

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. (Ethylbenzene)

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:
II

14.5 Environmental hazards

Marine pollutant: no



SAFETY DATA SHEET

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Revision date: 23/1/2019

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Language: en-GB,IE

Date of print: 28/8/2020

Protective Coating SX AR-PC 5000/40 & 5000/41

Material number SX AR-PC 5000/40 & 5000/41

Page: 11 of 13

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board:	ADR/RID: Kemmler-number 33, UN number UN 1993
Hazard label:	3
Special provisions:	274 601 640D
Limited quantities:	1 L
EQ:	E2
Contaminated packaging - Instructions:	P001 IBC02 R001
Special provisions for packing together:	MP19
Portable tanks - Instructions:	T7
Portable tanks - Special provisions:	TP1 TP8 TP28
Tank coding:	LGBF
Tunnel restriction code:	D/E

Sea transport (IMDG)

EmS:	F-E, S-E
Special provisions:	274
Limited quantities:	1 L
Excepted quantities:	E2
Contaminated packaging - Instructions:	P001
Contaminated packaging - Provisions:	-
IBC - Instructions:	IBC02
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T7
Tank instructions - Provisions:	TP1, TP8, TP28
Stowage and handling:	Category B.
Properties and observations:	-
Segregation group:	none

Air transport (IATA)

Hazard label:	Flamm. liquid
Excepted Quantity Code:	E2
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft:	Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only:	Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L
Special provisions:	A3
Emergency Response Guide-Code (ERG):	3H

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:	•3YE
	No data available



SAFETY DATA SHEET

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Revision date: 23/1/2019

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Date of print: 28/8/2020

Protective Coating SX AR-PC 5000/40 & 5000/41

Material number SX AR-PC 5000/40 & 5000/41

Page: 12 of 13

National regulations - EC member states

Labelling of packaging with $\leq 125\text{mL}$ content



Signal word:

Danger

Hazard statements: H304

May be fatal if swallowed and enters airways.

Precautionary Statements:

P261

Avoid breathing vapours/spray.

P301+P310

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331

Do NOT induce vomiting.

Further regulations, limitations and legal requirements:

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

15.2 Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out: Ethylbenzene

SECTION 16: Other information

Further information

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

H225 = Highly flammable liquid and vapour.

H304 = May be fatal if swallowed and enters airways.

H332 = Harmful if inhaled.

H373 = May cause damage to organs through prolonged or repeated exposure.



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Protective Coating SX AR-PC 5000/40 & 5000/41

Material number SX AR-PC 5000/40 & 5000/41

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

ATEmix: Acute Toxicity Estimate of mixture

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

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

NOEC: No Observed Effect Concentration

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 RE: Specific target organ toxicity - repeated exposure

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 1.3: Department responsible for information

Date of first version: 24/1/2011

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.