

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date	19th May 2017	Version	4.0
Revision date	04th May 2026		

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

1.1. Product identifier

S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Substance / mixture

mixture

Number

S2003-A-: C0110; C0599; C0600; C0660

UFI

YXN3-GMCW-K00E-YNJV

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

Mixture's intended use

SYNOREX EXTRA S2003 paint is intended for priming steel, light cast iron and older galvanized steel for indoor and outdoor use, under varnish, oil and synthetic topcoats.

Main intended use

PC-PNT-3 Paints/coatings - Protective and functional

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

Exposure scenario is attached to the Safety Data Sheet.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Name or trade name

COLORLAK, a.s.

Address

Tovární 1076, Staré Město, 686 03

Czech Republic

Identification number (CRN)

49444964

VAT number

CZ49444964

Phone

+420 572527111

Email

colorlak@colorlak.cz

Web address

www.colorlak.cz

Competent person responsible for the safety data sheet

Name

Ing. Gabriela Kubíková

Email

kubikova@colorlak.cz

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Flam. Liq. 3, H226

Skin Irrit. 2, H315

Skin Sens. 1A, H317

Eye Irrit. 2, H319

STOT SE 3, H335

STOT RE 2, H373 (central nervous system, respiratory tract)

Aquatic Chronic 2, H411

Most serious adverse physico-chemical effects

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause damage to the central nervous system and respiratory tract through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date	19th May 2017	Version	4.0
Revision date	04th May 2026		

2.2. Label elements

Hazard pictogram



Signal word

Warning

Hazardous substances

Technical xylene (mixed with ethylbenzene)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
Fatty acids, C18 unsat, reaction products with diethylenetriamine

Hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to the central nervous system and respiratory tract through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours/spray.
P264	Wash hands/ stained body parts/ water and soap thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P370+P378	In case of fire: Use foam (alcohol resistant), carbon dioxide, a spray mist, powder to extinguish.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to by handing over to a person authorized to dispose of waste or a site designated by the town.

Supplemental information

EUH208	Contains Fatty acids, C18 unsat, reaction products with diethylenetriamine. May produce an allergic reaction.
EUH066	Repeated exposure may cause skin dryness or cracking.

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date	19th May 2017	Version	4.0
Revision date	04th May 2026		

Density	1.2-1.35 g/cm ³ at 23 °C (manufacturer's methodology B5/TD1-5 (ČSN EN ISO 2811-2))
VOC	0,418 kg/kg
TOC	0,408 kg/kg
Dry matter	57-80 % weight
VOC limit value	cat. A (i) SB: 500 g/l
Max. VOC content in the product in its ready to use condition	498 g/l

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

The titanium dioxide contained contains < 1% particles with an aerodynamic diameter ≤ 10 µm and therefore the criteria for classification and additional information are not met.

"The synthetic polymer microparticles supplied are subject to the conditions set out in entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council."

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

SYNOREX EXTRA S2003 paint is a dispersion of organic pigments in a solution of alkyd resin and chlorinated rubber in organic solvents.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
EC: 905-588-0 Registration number: 01-2119539452-40	Technical xylene (mixed with ethylbenzene)	27-32	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Specific concentration limit: STOT RE 2, H373 (central nervous system): C > 10 %	3, 5
CAS: 1317-65-3 EC: 215-279-6	limestone	≤27		
CAS: 14807-96-6 EC: 238-877-9	talc (Mg ₃ H ₂ (SiO ₃) ₄)	≤16.7	not classified as dangerous	
CAS: 8007-18-9 EC: 232-353-3 Registration number: 01-2119491302-44	žluť na bázi směsného oxidu antimonu, niklu a titanu	≤11		
EC: 919-446-0 Registration number: 01-2119458049-33	hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	4.5-5.5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 STOT RE 1, H372 (central nervous system, respiratory tract) (inhalation) Aquatic Chronic 2, H411 EUH066	5

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 13463-67-7 EC: 236-675-5 Registration number: 01-2119489379-17	titanium dioxide	≤4.1	not classified as dangerous	2
Index: 030-011-00-6 CAS: 7779-90-0 EC: 231-944-3 Registration number: 01-2119485044-40-XXXX	trizinc bis(orthophosphate)	≤3	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
CAS: 51274-00-1 EC: 257-098-5 Registration number: 01-2119457554-33	Iron hydroxide oxide yellow	≤2.8	not classified as dangerous	
CAS: 1226892-43-8 EC: 629-715-1	Fatty acids, C18 unsat, reaction products with diethylenetriamine	0.4-0.7	Skin Corr. 1C, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) Specific concentration limit: ATE Dermal = 2200 mg/kg bw ATE Inhalation (vapor) = 22 mg/l	
CAS: 60580-61-2 EC: 262-309-9 Registration number: 01-2120768444-47	zinc-5-nitroisophthalate	0.1-1	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	
Index: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7 Registration number: 01-2119488216-32	xylene	0.4-0.7	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (gastrointestinal tract) Aquatic Chronic 3, H412	1, 3
CAS: 1317-61-9 EC: 215-277-5 Registration number: 01-2119457646-28	triiron tetraoxide	≤0.5		
Index: 030-013-00-7 CAS: 1314-13-2 EC: 215-222-5 Registration number: 01-2119463881-32	zinc oxide	≤0.34	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
Index: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 Registration number: 01-2119471310-51	toluene	≤0.08	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2 (**), H361d STOT RE 2 (**), H373	3, 4, 6
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	propan-2-ol	≤0.04	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH019	

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 1333-86-4 EC: 215-609-9 Registration number: 01-2119384822-32	carbon black	≤0.03		
Index: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 Registration number: 01-2119475791-29	2-methoxy-1-methylethyl acetate	≤0.03	Flam. Liq. 3, H226 STOT SE 3, H336	3
CAS: 34590-94-8 EC: 252-104-2 Registration number: 01-2119450011-60	(2-methoxymethylethoxy)propanol	≤0.01	not classified as dangerous Specific concentration limit: ATE Oral = 5001 mg/kg bw ATE Inhalation (vapor) = 3,35 mg/l ATE Dermal = 9510 mg/kg bw	3
CAS: 7631-86-9 EC: 231-545-4 Registration number: 01-2119379499-16	Silica, amorphous	≤0.001	not classified as dangerous	
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29	n-butyl acetate	≤0.001	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	3

Notes

** another exposure route cannot be ruled out

*** reproductive toxicity: supplementary letters specify whether fetal harm (d) or fertility harm (f) may occur

- 1 Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- 2 Note V: If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.
- 3 A substance for which exposure limits are set.
- 4 The use of the substance is restricted by Annex XVII of REACH Regulation
- 5 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.
- 6 Drug precursor

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date	19th May 2017	Version	4.0
Revision date	04th May 2026		

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water or shower.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Rinse out the mouth with water and provide 0.2-0.5 L of water. Provide medical treatment if the person has any health problems.

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

If inhaled

May cause respiratory irritation.

If on skin

May cause an allergic skin reaction.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Contaminated work clothing should not be allowed out of the workplace. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

Content	Packaging type	Material of package
0,6 l	can / tin	FE
3,5 l	can / tin	FE
9 l	bucket	FE
10 kg	bucket	FE
22 kg	bucket	FE

Storage class

3A - Flammable liquids (flash point below 55 °C)

Storage temperature

+5 až +25 °C

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

Commission Directive (EU) 2019/1831

Substance name (component)	Type	Value
n-butyl acetate (CAS: 123-86-4)	OEL 8 hours	241 mg/m ³
	OEL 8 hours	50 ppm
	OEL 15 minutes	723 mg/m ³
	OEL 15 minutes	150 ppm

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
xylene (CAS: 1330-20-7)	OEL 8 hours	221 mg/m ³
	OEL 8 hours	50 ppm
	OEL 15 minutes	442 mg/m ³
	OEL 15 minutes	100 ppm
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	OEL 8 hours	275 mg/m ³
	OEL 8 hours	50 ppm
	OEL 15 minutes	550 mg/m ³
	OEL 15 minutes	100 ppm
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	OEL 8 hours	308 mg/m ³
	OEL 8 hours	50 ppm
	OEL 8 hours	270 mg/m ³

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	OEL 8 hours	44,55 ppm

Notes
Skin.

European Union

Commission Directive 2006/15/EC

Substance name (component)	Type	Value
toluene (CAS: 108-88-3)	OEL 8 hours	192 mg/m ³
	OEL 8 hours	50 ppm
	OEL 15 minutes	384 mg/m ³
	OEL 15 minutes	100 ppm

Notes
Skin.

European Union

Commission Directive 91/322/EEC

Substance name (component)	Type	Value
Technical xylene (mixed with ethylbenzene)	OEL 8 hours	442 mg/m ³
	OEL 8 hours	100 ppm
	OEL 15 minutes	884 mg/m ³
	OEL 15 minutes	200 ppm
	OEL 8 hours	221 mg/m ³
	OEL 8 hours	50 ppm
	OEL 15 minutes	442 mg/m ³
	OEL 15 minutes	100 ppm

DNEL

(2-methoxymethylethoxy)propanol				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Dermal	283 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Workers	Inhalation	308 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	121 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	37.2 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Oral	36 mg/kg bw/day	Chronic effects systemic	BL dodavatele
2-methoxy-1-methylethyl acetate				
Workers / consumers	Route of exposure	Value	Effect	Source
Consumers	Dermal	320 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	36 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	500 mg/kg bw/day	Acute effects systemic	BL dodavatele
Consumers	Inhalation	33 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Inhalation	33 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Dermal	796 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Workers	Inhalation	550 mg/m ³	Acute effects local	BL dodavatele
Workers	Inhalation	275 mg/m ³	Chronic effects systemic	BL dodavatele

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

carbon black				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	2 mg/m ³	Acute effects local	BL dodavatele

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	330 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Dermal	44 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	71 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	26 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	26 mg/kg bw/day	Chronic effects systemic	BL dodavatele

Iron hydroxide oxide yellow				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	10 mg/m ³	Acute effects systemic	BL dodavatele
Workers	Inhalation	10 mg/m ³	Acute effects local	BL dodavatele

n-butyl acetate				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	300 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Inhalation	600 mg/m ³	Acute effects systemic	BL dodavatele
Workers	Inhalation	300 mg/m ³	Chronic effects local	BL dodavatele
Workers	Inhalation	600 mg/m ³	Acute effects local	BL dodavatele
Workers	Dermal	100 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Workers	Dermal	11 mg/kg bw/day	Acute effects systemic	BL dodavatele
Consumers	Inhalation	35.7 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	300 mg/m ³	Acute effects systemic	BL dodavatele
Consumers	Inhalation	35.7 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Inhalation	300 mg/m ³	Acute effects local	BL dodavatele
Consumers	Dermal	6 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Dermal	6 mg/kg bw/day	Acute effects systemic	BL dodavatele
Consumers	Dermal	2 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Dermal	2 mg/kg bw/day	Acute effects systemic	BL dodavatele

propan-2-ol				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	500 mg/m ³	Chronic effects systemic	bezpečnostní list dodavatele
Workers	Dermal	888 mg/kg bw/day	Chronic effects systemic	bezpečnostní list dodavatele
Consumers	Inhalation	89 mg/m ³ of air	Chronic effects systemic	bezpečnostní list dodavatele
Consumers	Oral	26 mg/kg bw/day	Chronic effects systemic	
Consumers	Dermal	319 mg/kg bw/day	Chronic effects systemic	

Silica, amorphous				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	4 mg/m ³	Chronic effects systemic	BL dodavatele

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

Technical xylene (mixed with ethylbenzene)

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	221 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Inhalation	221 mg/m ³	Chronic effects local	BL dodavatele
Workers	Dermal	212 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	65.3 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	65.3 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Dermal	125 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	12.5 mg/kg bw/day	Chronic effects systemic	BL dodavatele

titanium dioxide

Workers / consumers	Route of exposure	Value	Effect	Source
	Inhalation	10 mg/m ³	Chronic effects local	BL dodavatele

toluene

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	192 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Inhalation	192 mg/m ³	Chronic effects local	BL dodavatele
Workers	Dermal	384 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	56.5 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	56.5 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Dermal	226 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	8.13 mg/kg bw/day	Chronic effects systemic	BL dodavatele

triiron tetraoxide

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	10 mg/kg	Acute effects local	BL dodavatele

trizinc bis(orthophosphate)

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	5 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Dermal	83 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	2.5 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	83 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	0.83 mg/kg bw/day	Chronic effects systemic	BL dodavatele

xylene

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	77 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Dermal	180 mg/kg	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	14.8 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	108 mg/kg	Chronic effects systemic	BL dodavatele
Consumers	Oral	1.6 mg/kg	Chronic effects systemic	BL dodavatele
Workers	Inhalation	289 mg/m ³	Acute effects systemic	BL dodavatele
Workers	Inhalation	289 mg/m ³	Acute effects local	BL dodavatele

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

zinc oxide				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	5 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Dermal	83 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	2.5 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	83 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	830 µg/kg	Chronic effects systemic	BL dodavatele
Workers	Inhalation	0.5 mg/m ³	Chronic effects local	BL dodavatele

žluť na bázi směsného oxidu antimonu, niklu a titanu				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	4 mg/m ³	Acute effects local	BL dodavatele
Consumers	Inhalation	3 mg/m ³	Acute effects local	BL dodavatele

PNEC

(2-methoxymethylethoxy)propanol		
Route of exposure	Value	Source
Freshwater environment	19 mg/l	BL dodavatele
Marine water	1.9 mg/l	BL dodavatele
Water (intermittent release)	190 mg/l	BL dodavatele
Microorganisms in sewage treatment	4168 mg/l	BL dodavatele
Freshwater sediment	70.2 mg/kg of dry substance	BL dodavatele
Sea sediments	7.02 mg/kg of dry substance	BL dodavatele
Soil (agricultural)	2.74 mg/kg of dry substance	BL dodavatele

2-methoxy-1-methylethyl acetate		
Route of exposure	Value	Source
Freshwater environment	0.635 mg/l	BL dodavatele
Water (intermittent release)	6.35 mg/l	BL dodavatele
Marine water	0.064 mg/l	BL dodavatele
Microorganisms in sewage treatment	100 mg/l	BL dodavatele
Freshwater sediment	3.29 mg/kg of dry substance of sediment	BL dodavatele
Sea sediments	0.329 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	0.29 mg/kg of dry substance of soil	BL dodavatele

carbon black		
Route of exposure	Value	Source
Freshwater environment	5 mg/l	BL dodavatele
Marine water	5 mg/l	BL dodavatele

n-butyl acetate		
Route of exposure	Value	Source
Freshwater environment	0.18 mg/l	BL dodavatele
Marine water	0.018 mg/l	BL dodavatele

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

n-butyl acetate		
Route of exposure	Value	Source
Freshwater sediment	0.981 mg/kg of dry substance of sediment	BL dodavatele
Sea sediments	0.0981 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	0.0903 mg/kg of dry substance of soil	BL dodavatele

propan-2-ol		
Route of exposure	Value	Source
Microorganisms in sewage treatment	2251 mg/l	
Freshwater sediment	552 mg/kg	
Sea sediments	552 mg/kg	
Soil (agricultural)	25 mg/kg	
Freshwater environment	140.9 mg/l	
Marine water	140.9 mg/l	
Water (intermittent release)	140.9 mg/l	
Food chain	160 mg/kg	

Technical xylene (mixed with ethylbenzene)		
Route of exposure	Value	Source
Freshwater environment	0.327 mg/l	BL dodavatele
Water (intermittent release)	0.327 mg/l	BL dodavatele
Freshwater sediment	12.46 mg/kg of dry substance of sediment	BL dodavatele
Marine water	0.327 mg/l	BL dodavatele
Sea sediments	12.46 mg/kg of dry substance of sediment	BL dodavatele
Microorganisms in sewage treatment	6.58 mg/l	BL dodavatele
Soil (agricultural)	2.31 mg/kg of dry substance of soil	BL dodavatele

titanium dioxide		
Route of exposure	Value	Source
Freshwater environment	0.127 mg/l	BL dodavatele
Marine water	1 mg/l	BL dodavatele
Water (intermittent release)	0.61 mg/l	BL dodavatele
Freshwater sediment	1000 mg/kg	BL dodavatele
Sea sediments	100 mg/kg	BL dodavatele
Soil (agricultural)	100 mg/kg	BL dodavatele
Microorganisms in sewage treatment	100 mg/l	BL dodavatele
Food chain	1667 mg/kg	BL dodavatele

toluene		
Route of exposure	Value	Source
Freshwater environment	0.68 mg/l	BL dodavatele
Water (intermittent release)	0.68 mg/l	BL dodavatele
Freshwater sediment	16.39 mg/kg of dry substance of sediment	BL dodavatele

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

toluene		
Route of exposure	Value	Source
Marine water	0.68 mg/l	BL dodavatele
Sea sediments	16.39 mg/kg of dry substance of sediment	BL dodavatele
Microorganisms in sewage treatment	13.61 mg/l	BL dodavatele
Soil (agricultural)	2.89 mg/kg of dry substance of soil	BL dodavatele

trizinc bis(orthophosphate)		
Route of exposure	Value	Source
Freshwater environment	20.6 µg/l	BL dodavatele
Marine water	6.1 µg/l	BL dodavatele
Microorganisms in sewage treatment	100 µg/l	BL dodavatele
Freshwater sediment	117.8 mg/kg of dry substance of sediment	BL dodavatele
Sea sediments	56.5 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	35.6 mg/kg of dry substance of soil	BL dodavatele

xylene		
Route of exposure	Value	Source
Freshwater environment	0.327 mg/l	BL dodavatele
Marine water	0.327 mg/l	BL dodavatele
Water (intermittent release)	0.327 mg/l	BL dodavatele
Microorganisms in sewage treatment	6.58 mg/l	BL dodavatele
Freshwater sediment	12.46 mg/kg	BL dodavatele
Sea sediments	12.46 mg/kg	BL dodavatele
Soil (agricultural)	2.31 mg/kg	BL dodavatele

zinc oxide		
Route of exposure	Value	Source
Freshwater environment	20.6 µg/l	BL dodavatele
Marine water	6.1 µg/l	BL dodavatele
Microorganisms in sewage treatment	100 µg/l	BL dodavatele
Freshwater sediment	117.8 mg/kg of dry substance of sediment	BL dodavatele
Sea sediments	56.5 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	35.6 mg/kg of dry substance of soil	BL dodavatele

zinc-5-nitroisophthalate		
Route of exposure	Value	Source
Drinking water	20.6-80.8 µg/l	ECHA
Marine water	6.1-23.9 µg/l	ECHA
Microorganisms in sewage treatment	100-392.2 µg/l	ECHA
Freshwater sediment	117.8-462 mg/kg	ECHA
Sea sediments	56.5-221 mg/kg	ECHA

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

žluť na bázi směsného oxidu antimonu, niklu a titanu

Route of exposure	Value	Source
Freshwater environment	0.1 mg/l	BL dodavatele
Marine water	0.01 mg/l	BL dodavatele
Water (intermittent release)	1 mg/l	BL dodavatele
Microorganisms in sewage treatment	568 mg/l	BL dodavatele

8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection



Protective goggles.

Skin protection



Hand protection: Protective gloves resistant to the product (EN 374). Glove material: Nitrile rubber (EN 374). Recommended material thickness: min. 0.4 mm. Penetration time of the glove material $\geq$ 480 minutes (EN 374). No tests have been carried out, the resistance of the gloves must be tested before use. Find out the exact penetration time of the material from the glove manufacturer and observe it. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: Protective antistatic clothing made of natural fibres (cotton) or synthetic fibres resistant to elevated temperatures. Antistatic footwear. Contaminated skin should be washed thoroughly.

Glove material	Thickness	Breakthrough time	Class
Nitrile (NBR)	$\geq$ 0.4 mm	>480 min	6

Respiratory protection



Halfmask with a filter against organic vapours in the poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

More information

Exposure scenario is attached to the Safety Data Sheet.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state liquid

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date	19th May 2017	Version	4.0
Revision date	04th May 2026		

Colour	grey, green, yellow
Odour	after organic solvents
Melting point/freezing point	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	-83 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	-66 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	3652-3697 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	-73 °C (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	>1000 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	-78 °C (BL dodavatele)
Silica, amorphous (CAS: 7631-86-9)	1700 °C (BL dodavatele)
talc (Mg ₃ H ₂ (SiO ₃) ₄) (CAS: 14807-96-6)	>1300 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	-94.96-13.2 °C (BL dodavatele)
titanium dioxide (CAS: 13463-67-7)	>1560 °C (BL dodavatele)
toluene (CAS: 108-88-3)	-95 °C (BL dodavatele)
triiron tetraoxide (CAS: 1317-61-9)	>1000 °C (BL dodavatele)
trizinc bis(orthophosphate) (CAS: 7779-90-0)	912 °C (BL dodavatele)
zinc oxide (CAS: 1314-13-2)	>1000 °C (BL dodavatele)
Boiling point or initial boiling point and boiling range	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	189.6 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	145.8 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	155-194 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	124-126.5 °C (BL dodavatele)
propan-2-ol (CAS: 67-63-0)	82-83 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	136.2-144.5 °C (BL dodavatele)
titanium dioxide (CAS: 13463-67-7)	3000 °C (BL dodavatele)
toluene (CAS: 108-88-3)	110.6 °C (BL dodavatele)
Flammability	Flammable liquid of risk class II (ČSN 65 0201)
limestone (CAS: 1317-65-3)	non-inflammable (10 mg/l při 20°C, 15 mg/l při 25°C)
n-butyl acetate (CAS: 123-86-4)	inflammable (odvozeno od bodu vzplanutí)
Technical xylene (mixed with ethylbenzene)	inflammable (BL dodavatele)
trizinc bis(orthophosphate) (CAS: 7779-90-0)	Produkt není hořlavý. nehořlavý (BL dodavatele)
Lower and upper explosion limit	
bottom	0.7 % (for white spirit)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	1.1 % (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1.5 % (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	0.7 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	1.2 % (literatura)
propan-2-ol (CAS: 67-63-0)	2 % (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	0.8 % (BL dodavatele)
toluene (CAS: 108-88-3)	1.3 % (BL dodavatele)
upper	50 % (for Butanone oxime)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	14 % (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	7.0 % (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	6 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	7.6 % (literatura)
propan-2-ol (CAS: 67-63-0)	12 % (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	7 % (BL dodavatele)
toluene (CAS: 108-88-3)	6.7 % (BL dodavatele)
Flash point	28 °C (PND 67 3015)

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date	19th May 2017	Version	4.0
Revision date	04th May 2026		

(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	75 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	45.5 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	>600 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	43 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	27 °C (BL dodavatele)
propan-2-ol (CAS: 67-63-0)	13 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	18-32 °C (BL dodavatele)
toluene (CAS: 108-88-3)	4.4 °C (BL dodavatele)
Auto-ignition temperature	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	207 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	333 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	>140 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	242 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	415 °C (BL dodavatele)
propan-2-ol (CAS: 67-63-0)	425 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	432-528 °C (BL dodavatele)
toluene (CAS: 108-88-3)	480 °C (BL dodavatele)
Decomposition temperature	data not available
Iron hydroxide oxide yellow (CAS: 51274-00-1)	180 °C (BL dodavatele)
limestone (CAS: 1317-65-3)	>600 °C (BL dodavatele)
talc (Mg ₃ H ₂ (SiO ₃) ₄) (CAS: 14807-96-6)	>1000 °C (BL dodavatele)
žluť na bázi směsného oxidu antimonu, niklu a titanu (CAS: 8007-18-9)	>1300 °C (BL dodavatele)
pH	non-soluble (in water)
carbon black (CAS: 1333-86-4)	6-11 (3% solution) (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	4.5-7.5 (0.005% solution) (BL dodavatele)
limestone (CAS: 1317-65-3)	8.5-10.5 (10% solution at 20 °C) (BL dodavatele)
talc (Mg ₃ H ₂ (SiO ₃) ₄) (CAS: 14807-96-6)	9-9.5 (10% solution) (BL dodavatele)
triiron tetraoxide (CAS: 1317-61-9)	4-8 (5% solution) (BL dodavatele)
trizinc bis(orthophosphate) (CAS: 7779-90-0)	6-8 (10% solution) (BL dodavatele)
zinc oxide (CAS: 1314-13-2)	6.72-6.75 (undiluted at 20 °C) (BL dodavatele)
žluť na bázi směsného oxidu antimonu, niklu a titanu (CAS: 8007-18-9)	7-8 (0.05% solution at 20 °C) (BL dodavatele)
Kinematic viscosity	>20.5 mm ² /s at 40 °C
	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	4.55 mm ² /s at 20 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1.23 mm ² /s at 40 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	0.83 mm ² /s at 20 °C (BL dodavatele)
Solubility in water	not miscible
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	>1000 g/l (25 °C) (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	198 g/l při 20°C (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	insoluble (BL dodavatele)
limestone (CAS: 1317-65-3)	almost insoluble (BL dodavatele (10 mg/l při 20°C, 15 mg/l při 25°C))
n-butyl acetate (CAS: 123-86-4)	5.3 g/l při 20 °C (pH 6) (BL dodavatele)
propan-2-ol (CAS: 67-63-0)	miscible (BL dodavatele)
Silica, amorphous (CAS: 7631-86-9)	>1 mg/l (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	146-190.7 mg/l při 25 °C (BL dodavatele)
titanium dioxide (CAS: 13463-67-7)	soluble (BL dodavatele)
toluene (CAS: 108-88-3)	573-587 mg/l při 25 °C (BL dodavatele)
triiron tetraoxide (CAS: 1317-61-9)	insoluble (BL dodavatele)
trizinc bis(orthophosphate) (CAS: 7779-90-0)	<0.01 % (nerozpustný) (BL dodavatele)
zinc oxide (CAS: 1314-13-2)	2.9 mg/l (BL dodavatele)

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date	19th May 2017	Version	4.0
Revision date	04th May 2026		

žluť na bázi směsného oxidu antimonu, niklu a titanu (CAS: 8007-18-9)	insoluble (BL dodavatele)
Partition coefficient n-octanol/water (log value)	LogPow 0.05 to >4 (range of substances contained)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1.2 (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	3.12-3.2 (BL dodavatele)
toluene (CAS: 108-88-3)	2.73 (BL dodavatele)
Vapour pressure	0.37 hPa to 42 hPa at 20 °C (range of substances contained)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	0.037 kPa at 20 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	3.60 at 20 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	0.2 kPa at 20 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	12-21 at 20 °C (literatura)
propan-2-ol (CAS: 67-63-0)	42 hPa at 20 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	6.50-9.44 hPa at 20 °C (BL dodavatele)
toluene (CAS: 108-88-3)	31 hPa at 20 °C (BL dodavatele)
trizinc bis(orthophosphate) (CAS: 7779-90-0)	<1 hPa (BL dodavatele)
Density and/or relative density	
Density	1.2-1.35 g/cm ³ at 23 °C (manufacturer's methodology B5/TD1-5 (ČSN EN ISO 2811-2))
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	0.967 g/cm ³ at 20 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	1.7-1.9 g/cm ³ at 20 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	0.79 g/cm ³ at 15 °C (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	4.1 g/cm ³ at 20 °C (BL dodavatele)
limestone (CAS: 1317-65-3)	2.4-2.9 g/cm ³ (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	0.8812 g/cm ³ at 20 °C (BL dodavatele)
propan-2-ol (CAS: 67-63-0)	0.784-0.789 g/cm ³ (BL dodavatele)
Silica, amorphous (CAS: 7631-86-9)	2.2 g/cm ³ at 20 °C (BL dodavatele)
talc (Mg3H2(SiO3)4) (CAS: 14807-96-6)	2.58-2.83 g/cm ³ (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	0.862-0.88 g/cm ³ at 25 °C (BL dodavatele)
toluene (CAS: 108-88-3)	0.866 g/cm ³ at 20 °C (BL dodavatele)
triiron tetraoxide (CAS: 1317-61-9)	4.7 g/cm ³ at 20 °C (BL dodavatele)
trizinc bis(orthophosphate) (CAS: 7779-90-0)	3.3-3.7 g/cm ³ (BL dodavatele)
zinc oxide (CAS: 1314-13-2)	5.68 g/cm ³ at 22 °C (BL dodavatele)
zinc-5-nitroisophthalate (CAS: 60580-61-2)	2.2 g/cm ³ at 20 °C (ECHA)
žluť na bázi směsného oxidu antimonu, niklu a titanu (CAS: 8007-18-9)	4.6 g/cm ³ at 20 °C (BL dodavatele)
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid, medium viscous liquid without mechanical impurities, shell formation up to 3% of the weight of the filling and mixable sediment is allowed (manufacturer's methodology B5/TD1-17 (ČSN EN ISO 1513))

9.2. Other information

Combustion temperature	29 °C (PND 65 6212)
Ignition temperature	450 °C (PND 33 0371)
Content of organic solvents (VOC)	0.418 kg/kg (calculation)
Total organic carbon (TOC)	0.408 kg/kg (calculation)
Solid content (dry matter)	57-80 % weight (manufacturer's methodology B5/TD1-12B (ČSN EN ISO 3251))
VOC limit value	cat. A (i) SB: 500 g/l
Max. VOC content in the product in its ready to use condition	498 g/l (calculation)

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

Calorific value: 28.53 MJ/kg (PND 65 6169);
Calorific value: 30.20 MJ/kg (PND 65 6169);
Temperature class: T1 (PND 33 0371).

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is flammable.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Hazardous substances in concentrations exceeding exposure limits may cause acute inhalation poisoning, depending on the concentration and duration of exposure. No toxicological data is available for the mixture.

Acute toxicity

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

S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	ATE		155014 mg/kg				Calculation of value	
Dermal	ATE		3691 mg/kg				Calculation of value	
Inhalation (vapor)	ATE		36.93 mg/l				Calculation of value	

(2-methoxymethylethoxy)propanol								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat			BL dodavatele
Dermal	LD ₅₀	OECD 402	9510 mg/kg		Rabbit			BL dodavatele
Inhalation (vapor)	LC ₅₀		275 ppm	7 hours	Rat			BL dodavatele
Inhalation	LC ₅₀	OECD 403	3.35 mg/l	7 hours	Rat (Rattus norvegicus)			BL dodavatele
Oral	ATE		5001 mg/kg bw					

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

(2-methoxymethylethoxy)propanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation (vapor)	ATE		3.35 mg/l					
Dermal	ATE		9510 mg/kg bw					

2-methoxy-1-methylethyl acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		6190 mg/kg		Rat (Rattus norvegicus)			BL dodavatele

carbon black

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>8000 mg/kg		Rat			BL dodavatele
Inhalation	LC ₀		4.6 mg/m ³	4 hours	Rat			BL dodavatele
Inhalation	NOAEL		1.1 mg/m ³	13 weeks	Rat			BL dodavatele

Fatty acids, C18 unsat, reaction products with diethylenetriamine

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Dermal	ATE		2200 mg/kg bw					
Inhalation (vapor)	ATE		22 mg/l					

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		15000 mg/kg bw		Rat			ECHA
Inhalation	LD ₅₀		13.1 mg/l of air	4 hours	Rat			ECHA
Dermal	LD ₅₀		4 ml/kg bw		Rat			ECHA
Inhalation	NOAEL		300 ppm		Rat			ECHA
Dermal	NOAEL		495 mg/kg bw/day		Rat			ECHA

Iron hydroxide oxide yellow

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>10000 mg/kg		Rat			BL dodavatele

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

Iron hydroxide oxide yellow

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation (dust/mist)	LD ₅₀		>195 mg/m ³	2 weeks	Rat			BL dodavat ele

limestone

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 425	6450 mg/kg bw		Rat (Rattus norvegicus)			BL dodavat ele

n-butyl acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 423	10726 mg/kg bw		Rat (Rattus norvegicus)			BL dodavat ele
Dermal	LD ₅₀	OECD 402	14112 mg/kg bw		Rabbit			BL dodavat ele
Inhalation	NOAEC	EPA OTS 798.2450	550 ppm	13 weeks	Rat (Rattus norvegicus)			BL dodavat ele

propan-2-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>2000 mg/kg		Rat			
Dermal	LD ₅₀		>2000 mg/kg		Rabbit			
Inhalation (vapor)	LC ₅₀		>10000 ppm	6 hours	Rat			

Silica, amorphous

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Dermal	LD ₅₀		>5000 mg/kg		Rabbit			BL dodavat ele
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat			BL dodavat ele

Technical xylene (mixed with ethylbenzene)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		3523 mg/kg bw		Rat (Rattus norvegicus)			BL dodavat ele

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

Technical xylene (mixed with ethylbenzene)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Skin	LD ₅₀		12126 mg/kg bw		Rabbit			BL dodavat ele
Inhalation (vapor)	LD ₅₀		6700 ppm		Rat (Rattus norvegicus)			BL dodavat ele

titanium dioxide

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>5000 mg/kg					BL dodavat ele
Inhalation	LC ₅₀		>6.82 mg/l of air					BL dodavat ele

toluene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		5580 mg/kg bw		Rat (Rattus norvegicus)			BL dodavat ele
Skin	LD ₅₀		>5000 mg/kg bw		Rabbit			BL dodavat ele
Inhalation (vapor)	STEL		100 ppm	15 minutes	Human			BL dodavat ele

triiron tetraoxide

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>5000 mg/kg		Rat			BL dodavat ele

trizinc bis(orthophosphate)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>5000 mg/kg bw/day		Rat			BL dodavat ele
Inhalation	LC ₅₀		>5.7 mg/l	4 hours	Rat			BL dodavat ele

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

xylene								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		4300 mg/kg		Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀		>4200 mg/kg		Rabbit			BL dodavatele
Inhalation	LC ₅₀		29000 mg/m ³	4 hours	Rat			BL dodavatele

zinc oxide								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>5000 mg/kg		Rat (Rattus norvegicus)			BL dodavatele
Inhalation (aerosols)	LC ₅₀		>5.7 mg/l	4 hours	Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀		>2000 mg/kg bw		Rat (Rattus norvegicus)			BL dodavatele

zinc-5-nitroisophthalate								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>10000 mg/kg		Rat			BL dodavatele

žluť na bázi směsného oxidu antimonu, niklu a titanu								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>10000 mg/kg		Rat (Rattus norvegicus)			BL dodavatele

Skin corrosion/irritation

Causes skin irritation.

propan-2-ol				
Route of exposure	Result	Exposure time	Species	Source
Dermal	Not irritating		Rabbit	

talc (Mg ₃ H ₂ (SiO ₃) ₄)				
Route of exposure	Result	Exposure time	Species	Source
		3 days	Human	výrobce

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

Serious eye damage/irritation

Causes serious eye irritation.

propan-2-ol			
Route of exposure	Result	Exposure time	Species
Eye	Irritating		Rabbit

Respiratory or skin sensitisation

May cause an allergic skin reaction.

propan-2-ol				
Route of exposure	Result	Exposure time	Species	Sex
	Not sensitizing		Guinea-pig (<i>Cavia aperea f. porcellus</i>)	

Germ cell mutagenicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

propan-2-ol				
Result	Exposure time	Specific target organ	Species	Sex
Negative				

Carcinogenicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

(2-methoxymethylethoxy)propanol								
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Inhalation (vapor)		OECD 453	18184.5 mg/m ³	2 years (6 hour/day)	Negative	Rat (<i>Rattus norvegicus</i>)	F/M	BL dodavatele

Technical xylene (mixed with ethylbenzene)								
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Inhalation (vapor)	NOAEC	OECD 451	<75 ppm			Rat (<i>Rattus norvegicus</i>)		BL dodavatele

toluene								
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Inhalation (vapor)	NOAEC	OECD 453	4522 mg/m ³ of air			Rat (<i>Rattus norvegicus</i>)		BL dodavatele
Inhalation (vapor)	LOAEC	OECD 453	2261 mg/m ³ of air			Rat (<i>Rattus norvegicus</i>)		BL dodavatele

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

Reproductive toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

(2-methoxymethylethoxy)propanol

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Effects on fertility	NOAEL	OECD 416	300 ppm			Rat (Rattus norvegicus)	F/M	BL dodavatele
Effects on fertility	NOEC	OECD 416	6061.35 mg/m ³			Rat (Rattus norvegicus)	F/M	BL dodavatele
Developmental toxicity	NOEC		1818.4 mg/m ³	10 days (6 hour/day)		Rabbit		BL dodavatele

n-butyl acetate

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Developmental toxicity	NOAEC	OECD 414	1500 ppm			Rabbit		BL dodavatele
Developmental toxicity	LOAEC	OECD 414	1500 ppm			Rat (Rattus norvegicus)		BL dodavatele
Effects on fertility	LOAEC	OECD 416	2000 ppm	90 days		Rat (Rattus norvegicus)		BL dodavatele

Technical xylene (mixed with ethylbenzene)

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
	NOAEC		≥ 500 ppm			Rat (Rattus norvegicus)		BL dodavatele

toluene

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
	NOAEC		2261 mg/m ³ of air			Rat (Rattus norvegicus)		BL dodavatele

Toxicity for specific target organ - single exposure

May cause respiratory irritation. Data for the components of the mixture are not available.

Toxicity for specific target organ - repeated exposure

May cause damage to the central nervous system and respiratory tract through prolonged or repeated exposure.

Repeated dose toxicity

(2-methoxymethylethoxy)propanol

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			1000 mg/kg	4 weeks (7 days/week)	Rat (Rattus norvegicus)	F/M	BL dodavatele

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

(2-methoxymethylethoxy)propanol

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Inhalation (vapor)	NOAEL		OECD 413	1232 mg/m ³	13 weeks (6 hour/day, 5 days/week)	Rat (Rattus norvegicus)	F/M	BL dodavatel e
Dermal	NOAEL		OECD 411	2850 mg/kg	90 days (5 days/week)	Rabbit	M	BL dodavatel e

Technical xylene (mixed with ethylbenzene)

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			250 mg/kg bw/day		Rat (Rattus norvegicus)		BL dodavatel e
Inhalation	NOAEC			≥810 ppm		Dog		BL dodavatel e

toluene

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL		OECD 453	625 mg/kg bw/day		Rat (Rattus norvegicus)		BL dodavatel e
Oral	LOAEL		OECD 453	1250 mg/kg bw/day		Rat (Rattus norvegicus)		BL dodavatel e

trizinc bis(orthophosphate)

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			31.52 mg/kg bw/day		Rat		echa

xylene

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			150-250 mg/kg bw/day		Rat (Rattus norvegicus)		echa

zinc oxide

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			31.52 mg/kg bw/day		Rat (Rattus norvegicus)		echa
Inhalation	NOAEL			1.5 mg/m ³ of air		Rat (Rattus norvegicus)		echa
Dermal	LOAEL			75 mg/kg bw/day		Rat (Rattus norvegicus)		echa

Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

11.2. Information on other hazards

Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Acute toxicity

(2-methoxymethylethoxy)propanol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	>1000 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e
LC ₅₀	OECD 202	1919 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel e
ErC ₅₀	OECD 201	>969 mg/l	96 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e
EC ₁₀		4168 mg/l	18 hours	Microorganisms (Pseudomonas putida)		BL dodavatel e

2-methoxy-1-methylethyl acetate						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		180 mg/l	96 hours	Algae (Selenastrum capricornutum)		BL dodavatel e
EC ₅₀		500 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel e

carbon black						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	>1000 mg/l	96 hours	Fish (Branchydanio rerio)		BL dodavatel e
EC ₅₀	OECD 202	>5600 mg/l	24 hours	Daphnia (Daphnia magna)		BL dodavatel e
EC ₅₀		>10000 mg/l	72 hours	Algae (Scenedesmus subspicatus)		BL dodavatel e
EC ₀		≥800 mg/l	3 hours	Microorganisms	Activated sludge	BL dodavatel e

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	10-30 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e
EC ₅₀	OECD 202	10-22 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel e
ErC ₅₀	OECD 201	4.1 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e

Iron hydroxide oxide yellow

Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀		>10000 mg/l	3 hours	Bacteria (Salmonella typhimurium)	Fresh water	BL dodavatel e
EC ₅₀	OECD 202	>100 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	BL dodavatel e
LC ₀	OECD 203	>1000000 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	BL dodavatel e

limestone

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>10000 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e
LC ₅₀		>1000 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel e
EC ₅₀		>200 mg/l	72 hours	Algae (Desmodesmus subspicatus)		BL dodavatel e

n-butyl acetate

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	18 mg/l	96 hours	Algae (Pimephales promelas)		BL dodavatel e
EC ₅₀	OECD 203	44 mg/l	48 hours	Crustaceans (Daphnia magna)		BL dodavatel e
EC ₅₀	OECD 203	674.7 mg/l	72 hours	Algae and other aquatic plants (Desmodesmus subspicatus)		BL dodavatel e
NOEC	OECD 203	200 mg/l	72 hours	Algae and other aquatic plants (Desmodesmus subspicatus)		BL dodavatel e

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

propan-2-ol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>100 mg/l	96 hours	Fish (Pimephales promelas)		
EC ₅₀		>100 mg/l	48 hours	Daphnia (Daphnia magna)		
EC ₅₀		>100 mg/l	72 hours	Algae (Scenedesmus subspicatus)		

Silica, amorphous						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	>10000 mg/l	96 hours	Fish (Danio rerio)		BL dodavatel e
EC ₅₀	OECD 202	>1000 mg/l	24 hours	Daphnia (Daphnia magna)		BL dodavatel e
EC ₅₀		120 mg/l	48 hours	Algae (Selenastrum capricornutum)		BL dodavatel e
NOEC		60 mg/l	48 hours	Algae (Selenastrum capricornutum)		BL dodavatel e

talc (Mg3H2(SiO3)4)						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>100000 mg/l	24 hours	Fish (Oncorhynchus mykiss)		výrobce
LC ₅₀		94983.781 mg/kg	48 hours	Crustaceans		výrobce
LC ₅₀		48545.539 mg/l		Algae (Selenastrum capricornutum)		výrobce

Technical xylene (mixed with ethylbenzene)						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	8.4 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e
IC ₅₀	OECD 202	4.7 mg/l	24 hours	Invertebrates		BL dodavatel e
NOEC	OECD 201	0.44 mg/l	73 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e
EC ₅₀	OECD 201	4.36 mg/l	73 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

titanium dioxide						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>100 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	BL dodavatel e
LC ₅₀		>1000 mg/l	96 hours	Fish (Pimephales promelas)	Fresh water	BL dodavatel e
LC ₅₀	OECD 202	>100 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	BL dodavatel e

toluene						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		5.5 mg/l	96 hours	Fish (Oncorhynchus kisutch)		BL dodavatel e
LC ₅₀		3.78 mg/l	2 days	Invertebrates (Ceriodaphnia dubia)		BL dodavatel e
EC ₅₀		134 mg/l	3 hours	Algae (Chlorella vulgaris a Chlamydomonas angulosa)		BL dodavatel e

triiron tetraoxide						
Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₀	EU C.2 (84/449/EEC)	>10000 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel e
LC ₀	OECD 203	>10000 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e

trizinc bis(orthophosphate)						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		112 µg/l	96 days	Fish		BL dodavatel e
EC ₅₀		0.413 mg/l	48 hours	Daphnia (Ceriodaphnia dubia)		BL dodavatel e
ErC ₅₀		0.136 mg/l	72 hours	Algae (Selenastrum capricornutum)		BL dodavatel e
EC ₅₀		5.2 mg/l	3 hours	Microorganisms (Photobacterium phosphoreum)		echa

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

xylene						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		13.5 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e
EC ₅₀	OECD 202	1 mg/l	24 hours	Daphnia (Daphnia magna)		BL dodavatel e
EC ₅₀		2.2 mg/l	72 hours	Algae (Selenastrum capricornutum)		BL dodavatel e
EC ₅₀		96 mg/l	24 hours	Microorganisms (Photobacterium phosphoreum)		echa

zinc oxide						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		1.793 mg/l	96 hours	Fish (Danio rerio)		BL dodavatel e
EC ₅₀		0.86 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel e
IC ₅₀		136 µg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e
NOEC		24 µg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e
NOEC		5.6 µg/l	24 days	Crustaceans (Holmesimysis costata)		BL dodavatel e

zinc-5-nitroisophthalate						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		330 µg/l	95 hours	Fish (Oncorhynchus mykiss)		ECHA
NOEC		50-130 µg/l	5 months	Fish (Oncorhynchus mykiss)		ECHA
EC ₅₀		155-2909 µg/l	48 hours	Daphnia (Daphnia magna)		ECHA
LC ₅₀		95-2287130 µg/l	48 hours	Aquatic invertebrates		ECHA
NOEC		300 µg/l	3 months	Aquatic invertebrates		ECHA
EC ₅₀		1448 µg/l	4 days	Algae and other aquatic plants		ECHA
IC ₅₀		106-2050 µg/l	72 hours	Algae and other aquatic plants		ECHA
NOEC		313 µg/l	5 days	Algae and other aquatic plants		ECHA
NOEC		60 µg/l	72 hours	Higher plants		ECHA

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

zinc-5-nitroisophthalate

Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀		114.4 mg/l	3 hours	Microorganisms (Photobacterium phosphoreum)		ECHA
NOEC		100-24500 µg/l	4 hours	Microorganisms (Photobacterium phosphoreum)		ECHA

žluť na bázi směsného oxidu antimonu, niklu a titanu

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>10000 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel
EC ₅₀	OECD 202	>100 mg/l	4 hours	Daphnia (Daphnia magna)		BL dodavatel
EC ₅₀	OECD 201	>100 mg/l	72 hours	Algae (Selenastrum capricornutum)		BL dodavatel
EC ₅₀		>10000 mg/l		Microorganisms (Photobacterium phosphoreum)		BL dodavatel
NOEC	OECD 211	>1 mg/l	21 days	Daphnia (Daphnia magna)		BL dodavatel

Chronic toxicity

(2-methoxymethylethoxy)propanol

Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		>0.5 mg/l	22 days	Daphnia (Daphnia magna)		BL dodavatel
LOEC		>0.5 mg/l	22 days	Daphnia (Daphnia magna)		BL dodavatel

n-butyl acetate

Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC	OECD 211	23 mg/l	21 hours	Crustaceans (Daphnia magna)		BL dodavatel

xylene

Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		>1.3 mg/l	56 days	Fish (Oncorhynchus mykiss)		BL dodavatel
NOEC		1.17 mg/l	7 days	Daphnia (Daphnia sp.)		BL dodavatel

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date 19th May 2017 Version 4.0
Revision date 04th May 2026

zinc oxide						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		0.056-0.061 mg/l	116 days	Fish (Salmo trutta)		BL dodavatel e

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

(2-methoxymethylethoxy)propanol						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301F	75 %	28 days		Easily biodegradable	BL dodavatel e

2-methoxy-1-methylethyl acetate						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301F	83 %			Easily biodegradable	BL dodavatel e

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301F				Easily biodegradable	BL dodavatel e

propan-2-ol						
Parameter	Method	Value	Exposure time	Environment	Result	Source
					Biodegradable	
		53 %	5 days	Activated sludge		

12.3. Bioaccumulative potential

Data for the mixture are not available.

(2-methoxymethylethoxy)propanol					
Parameter	Method	Value	Species	Temperature [°C]	Source
Log Pow	OECD 107	0.006		25°C	BL dodavatele

propan-2-ol					
Parameter	Method	Value	Species	Temperature [°C]	Source
Log Pow		<1		25°C	

toluene					
Parameter	Method	Value	Species	Temperature [°C]	Source
		90	Fish (Oncorhynchus mykiss)		BL dodavatele

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date	19th May 2017	Version	4.0
Revision date	04th May 2026		

12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

Packaging waste type code

15 01 10* packaging containing residues of or contaminated by hazardous substances

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III

14.5. Environmental hazards

Yes.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date	19th May 2017	Version	4.0
Revision date	04th May 2026		

Additional information

Hazard identification No.

30

UN number

1263

Classification code

F1

Safety signs

3+ hazardous for the environment



Road transport - ADR

Special provisions

163, 367, 650

Limited quantities

5 L

Excepted quantities

E1

Packaging

Packing instructions

P001, IBC03, LP01, R001

Special packing provisions

PP1

Mixed packing provisions

MP19

Portable tanks and bulk containers

Guidelines

T2

Special provisions

TP1, TP29

ADR tank

Tank code

LGBF

Vehicles for tank carriage

FL

Transport category

3

Tunnel restriction code

(D/E)

Special provision for

packages

V12

operation

S2

Railway transport - RID

Special provisions

163, 367, 650

Packaging

Packing instructions

P001, IBC03, LP01, R001

Special packing provisions

PP1

Mixed packing provisions

MP19

Portable tanks and bulk containers

Guidelines

T2

Special provisions

TP1, TP29

RID Tanks

Tank code

LGBF

Transport category

3

Special provision for

packages

W12

Air transport - ICAO/IATA

Packaging instructions for limited amount

Y344

Packaging instructions passenger

355

Cargo packaging instructions

366

Marine transport - IMDG

EmS (emergency plan)

F-E, S-E

MFAG

310

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date	19th May 2017	Version	4.0
Revision date	04th May 2026		

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

toluene

Restriction	Conditions of restriction
48	Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0,1 % by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

More information

The product contains synthetic polymer microparticles in a maximum amount of 7.665%. The synthetic polymer microparticles supplied are subject to the conditions set out in entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

EUH019	May form explosive peroxides.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains Fatty acids, C18 unsat, reaction products with diethylenetriamine. May produce an allergic reaction.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312+H332	Harmful in contact with skin or if inhaled.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to the central nervous system and respiratory tract through prolonged or repeated exposure if inhaled.
H373	May cause damage to the central nervous system through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to the gastrointestinal tract through prolonged or repeated exposure.
H373	May cause damage to the central nervous system and respiratory tract through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date	19th May 2017	Version	4.0
Revision date	04th May 2026		

Guidelines for safe handling used in the safety data sheet

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours/spray.
P264	Wash hands/ stained body parts/ water and soap thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P370+P378	In case of fire: Use foam (alcohol resistant), carbon dioxide, a spray mist, powder to extinguish.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to by handing over to a person authorized to dispose of waste or a site designated by the town.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
ATE	Acute toxicity estimate
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₀	Concentration of a substance when it is affected 0 % of the population
EC ₁₀	Concentration of a substance when it is affected 10 % of the population
EC ₅₀	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EU	European Union
EuPCS	European Product Categorisation System
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2003 Synthetic anti-corrosion primer for iron and light metals SYNOREX EXTRA

Creation date	19th May 2017	Version	4.0
Revision date	04th May 2026		

IUPAC	International Union of Pure and Applied Chemistry
LC ₀	Lethal concentration of a substance in which it can be expected death of 0% of the population
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
UN number	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 4.0 replaces the SDS version from 15 March 2022. Changes were made in sections 1, 2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 15 and 16.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

Příloha bezpečnostního listu pro výrobek: Rozpouštědlová nátěrová hmota

1. Expoziční scénář: Průmyslové použití

Sektor použití : SU3
Kategorie chemických výrobků : PC9a
Dílčí procesy kryté expozičním scénářem : PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC10, PROC13, PROC 15
Uvolňování výrobku do životního prostředí : ERC4

Základní podmínky omezující riziko pro pracovníky:

Trvání pracovních činností : expozice trvající nejvýše 8 hodin / den
Koncentrace : práce s nátěrovou hmotou, popř. naředěnou na aplikační hustotu
Teplota : provádění prací při doporučené teplotě +5 až 25°C
Obecná opatření na omezení rizik : pracovat v ochranném pracovním oděvu, při kontaktu s nátěrovou hmotou používat ochranné rukavice a ochranné brýle, limitní koncentrace látek obsažených ve směsi jsou uvedeny v oddíle 8 bezpečnostního listu a mohou se lišit v závislosti na typu nátěrové hmoty
Při práci dodržovat obecné zásady hygieny a bezpečnosti práce.
Prostředí, kde jsou činnosti prováděny : vnitřní prostředí s odvětráváním.

Doplňující požadavky omezující riziko pro pracovníky vykonávající dílčí pracovní činnosti:

Dílčí pracovní činnost prováděná s výrobkem	Kategorie procesu	Požadované doplňující opatření
Přečerpávání nátěrových hmot z / do zásobníků a zařízení v uzavřeném systému	PROC1 Použití v rámci uzavřeného výrobního procesu	Nevyžadováno
Přečerpávání nátěrových hmot z / do zásobníků a zařízení v nesespecializovaném zařízení s možností expozice osob a životního prostředí	PROC8a přeprava výrobku (napouštění / vypouštění) z / do nádob / kontejnerů v nesespecializovaných zařízeních	Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Přečerpávání nátěrových hmot z / do zásobníků a zařízení v nesespecializovaném zařízení s možností expozice osob a životního prostředí	PROC8b PROC8a přeprava výrobku (napouštění / vypouštění) z / do nádob / kontejnerů v specializovaných zařízeních	Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Míchání, směšování, ředění nátěrových hmot v otevřených zařízeních s možností expozice osob a životního prostředí	PROC5 míchání nebo směšování v dávkových procesech při výrobě směsí	Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Aplikace stříkáním	PROC7 průmyslové nástřikové techniky	Robotický nástřik provádět v uzavřených komorách nebo uzavřených kabinách s odsáváním a zajištěním nezávislého přívodu vzduchu. Ruční nástřik provádějte ve stříkacích kabinách nebo v intenzívně větraných prostorách (5-10 výměn vzduchu za hodinu) za použití polomasky nebo masky s filtrem typu A/P2.
Ruční aplikace nátěrových hmot válečkem, štětkou, stěrkou	PROC10 aplikace válečkem, stěrkou nebo štětkou	Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Nanášení nátěrových hmot poléváním nebo ponořením	PROC13 úprava předmětů máčením a poléváním	Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Volné sušení nátěrového filmu při normální teplotě nebo mírně zvýšené teplotě	PROC4 použití v rámci dávkového a jiného procesu s větší možností expozice	Provádět za místního odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Kontinuální postupy sušení a vytvrzování nátěrových hmot za zvýšené teploty v sušicích tunelech s odsáváním par	PROC2 použití v rámci nepřetržitého chemického výrobního procesu s příležitostnou kontrolovanou expozicí (např. odběr	Nevyžaduje další opatření na omezení rizik.

Dílčí pracovní činnost prováděná s výrobkem	Kategorie procesu	Požadované doplňující opatření
	vzorků)	
Násadové postupy sušení a vytvrzování filmu nátěrových hmot za zvýšené teploty v odsávaných komorách.	PROC3 použití v rámci uzavřeného dávkového procesu výroby směsí	Nevyžaduje další opatření na omezení rizik.
Strojní čištění a promývání uzavřených nádrží, zásobníků a zařízení vybavených odsáváním par	PROC3 použití v rámci uzavřeného dávkového procesu výroby směsí	Nevyžaduje další opatření na omezení rizik.
Ruční čištění malých zásobníků, aplikačních zařízení a nářadí	PROC10 aplikace válečkem, stěrkou nebo štětcem	Lokální odsávání v místě potencionálního úniku emisí nebo dobré větrání (3 – 5 výměn vzduchu za hodinu).
Kontrolní činnosti prováděné s nátěrovými hmotami v laboratořích	PROC15 použití jako laboratorního reagentu (práce s výrobkem v laboratořích)	Dobré větrání (3 – 5 výměn vzduchu za hodinu).
Činnosti s odpady výrobku a odpady znečištěnými výrobkem		Při nebezpečí styku s odpady používat rukavice. Odpady ukládat do uzavíratelných obalů uložených v dobře větraných skladech nebo ve venkovním prostředí. Odpady zajistit proti úniku do vody a půdy.

Doplňující požadavky omezující riziko pro životní prostředí

Omezování emisí do ovzduší	Při nanášení barvy stříkáním odstraňovat ze vzduchu odtahovaného z pracovních prostor úlet aerosolu barvy. Při překročení limitů spotřeby rozpouštědel stanovených vyhláškou využívat postupy rekuperace rozpouštědel z odpadního vzduchu nebo jinými postupy zaručujícími dodržení emisních parametrů stanovených předpisy pro ochranu ovzduší.
Omezování emisí do vody	Barvu a odpady znečištěné barvou skladovat v objektech stavebně zajištěných proti úniku úkapů a havarijních úniků do podzemních a povrchových vod. Při vypouštění odpadních vod dodržovat parametry stanovené pro dané zařízení vodohospodářským orgánem.
Odstraňování odpadů	Odpady barvy a materiálů znečištěných barvou odstraňovat ve spolupráci s osobami oprávněnými k nakládání s odpady.

2. Expoziční scénář: profesionální použití

Sektor použití : SU22
Kategorie chemických výrobků : PC9a
Dílčí procesy kryté expozičním scénářem : PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC 15, PROC19
Uvolňování výrobku do životního prostředí : ERC8a, REC8d

Základní podmínky omezující riziko pro pracovníky:

Trvání pracovních činností : expozice trvající nejvýše 8 hodin / den
Koncentrace : práce s nátěrovou hmotou, popř. naředěnou na aplikační hustotu
Teplota : provádění prací při doporučené teplotě +5 až 25°C s výjimkou sušení nebo vytvrzování filmu za zvýšené teploty
Obecná opatření na omezení rizik : pracovat v ochranném pracovním oděvu, při kontaktu s nátěrovou hmotou používat ochranné rukavice a ochranné brýle, limitní koncentrace látek obsažených ve směsi jsou uvedeny v oddíle 8 bezpečnostního listu a mohou se lišit v závislosti na typu nátěrové hmoty
Při práci dodržovat obecné zásady hygieny a bezpečnosti práce.

Prostředí, kde jsou činnosti prováděny : vnitřní prostředí s odvětráváním, popř. venkovní prostředí.

Doplňující požadavky omezující riziko pro pracovníky vykonávající dílčí pracovní činnosti:

Dílčí pracovní činnost prováděná s výrobkem	Kategorie procesu	Požadované doplňující opatření
Přečerpávání nátěrových hmot z / do zásobníků a zařízení v nesespecializovaném zařízení s možností expozice osob a životního prostředí	PROC8a přeprava výrobku (napouštění / vypouštění) z / do nádob / kontejnerů v nesespecializovaných zařízeních	Uvnitř budov: Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: zajistit úkapy nátěrových hmot.
Míchání, směšování, ředění nátěrových hmot v otevřených zařízeních s možností expozice osob a	PROC5 míchání nebo směšování	Uvnitř: Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).

Dílčí pracovní činnost prováděná s výrobkem	Kategorie procesu	Požadované doplňující opatření
životního prostředí	v dávkových procesech při výrobě směsí	Venku: činnosti vykonávat nejdéle 4hod./den bez potřeby dalších opatření, nebo používat ochranu dýchacích orgánů s filtrem typu A.
Aplikace stříkáním	PROC11 neprůmyslové nástřikové techniky	Uvnitř: nástřik provádět v uzavřených komorách nebo uzavřených kabinách s odsáváním a zajištěním nezávislého přívodu vzduchu. Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Ruční nástřik provádějte ve stříkacích kabinách nebo v intenzivně větraných prostorách (5-10 výměn vzduchu za hodinu) za použití polomasky nebo masky s filtrem typu A/P2. Venku: použití polomasky nebo masky s filtrem typu A/P2.
Ruční aplikace nátěrových hmot válečkem, štětcem, stěrkou	PROC10 aplikace válečkem, stěrkou nebo štětcem	Uvnitř: Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: nevyžaduje se další opatření
Nanášení nátěrových hmot poléváním nebo ponořením	PROC13 úprava předmětů máčením a poléváním	Uvnitř: Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: používat ochranu dýchacích orgánů s filtrem typu A.
Násadové postupy sušení a vytvrzování filmu nátěrových hmot za zvýšené teploty v odsávaných komorách.	PROC3 použití v rámci uzavřeného dávkového procesu výroby směsí	Nevyžaduje další opatření na omezení rizik.
Volné sušení nátěrového filmu při normální teplotě nebo mírně zvýšené teplotě	PROC4 použití v rámci dávkového a jiného procesu s větší možností expozice	Uvnitř: Provádět za místního odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: nevyžaduje se další opatření
Ruční čištění malých zásobníků, aplikačních zařízení a nářadí	PROC10 aplikace válečkem, stěrkou nebo štětcem	Uvnitř: Lokální odsávání v místě potencionálního úniku emisí nebo dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: nevyžaduje se další opatření
Činnosti, při kterých dochází k přímému kontaktu s výrobkem bez použití pracovního nástroje	PROC19 ruční mísení s úzkým kontaktem za použití OOPP	Uvnitř: rukavice, místní odsávání nebo dobré větrání Venku: rukavice
Kontrolní činnosti prováděné s nátěrovými hmotami v laboratořích	PROC15 použití jako laboratorního reagentu (práce s výrobkem v laboratořích)	Dobré větrání (3 – 5 výměn vzduchu za hodinu).
Činnosti s odpady výrobku a odpady znečištěnými výrobkem		Při nebezpečí styku s odpady používat rukavice. Odpady ukládat do uzavíratelných obalů uložených v dobře větraných skladech nebo ve venkovním prostředí. Odpady zajistit proti úniku do vody a půdy. Uvnitř: dobré větrání (3 – 5 výměn vzduchu za hodinu).

Doplňující požadavky omezující riziko pro životní prostředí

Omezování emisí do ovzduší	Nejsou požadována žádná zvláštní opatření
Omezování emisí do vody	Barvu a odpady znečištěné barvou skladovat v objektech stavebně zajištěných proti úniku úkapů a havarijních úniků do podzemních a povrchových vod. Při vypouštění odpadních vod dodržovat parametry stanovené pro dané zařízení vodohospodářským orgánem.
Odstraňování odpadů	Odpady barvy a materiálů znečištěných barvou odstraňovat ve spolupráci s osobami oprávněnými k nakládání s odpady.