

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date	20th March 2017	Version	3.0
Revision date	24th June 2025		

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

1.1. Product identifier

C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX
mixture
C2001-: A-C....; A-R....; Z1R....
0C5C-G5QF-F00E-SDQD

Substance / mixture

Number

UFI

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

Mixture's intended use

CELOX C2001 is a quick-drying paint suitable for coloring wooden objects - chairs, furniture, etc. and metals (coated with a basic anti-corrosion paint, e.g. SYNOREX EXTRA S2003 or CELOX PRIMER C2000) for outdoor and indoor use.

Main intended use

PC-PNT-OTH Other paints and coating materials

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

Address

Identification number (CRN)

VAT Reg No

Phone

E-mail

Web address

COLORLAK, a.s.

Tovární 1076, Staré Město, 686 03

Czech Republic

49444964

CZ49444964

+420 572527111

colorlak@colorlak.cz

www.colorlak.cz

Competent person responsible for the safety data sheet

Name

E-mail

Ing. Gabriela Kubíková

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. 2, H225

Skin Irrit. 2, H315

Skin Sens. 1, H317

Eye Dam. 1, H318

Resp. Sens. 1, H334

STOT SE 3, H336

Repr. 2, H361d

STOT RE 2, H373

Aquatic Chronic 3, H412

Most serious adverse physico-chemical effects

Highly 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 damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date	20th March 2017	Version	3.0
Revision date	24th June 2025		

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

n-butyl acetate
toluene
2-methylpropan-1-ol
phthalic anhydride
maleic anhydride

Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful 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.
P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing 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/eye protection/protective clothing/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
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

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017
Revision date 24th June 2025 Version 3.0

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 $\leq 10 \mu\text{m}$ and therefore the criteria for classification and additional warnings are not met.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

CELOX C2001 paint is a dispersion of inorganic and organic pigments in a nitrocellulose solution in organic solvents with the addition of resins and plasticizers.

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
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29	n-butyl acetate	15-25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	5
Index: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 Registration number: 01-2119471310-51	toluene	18-21	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2 (**), H361d STOT RE 2 (**), H373	5, 6, 9
Index: 022-006-00-2 CAS: 13463-67-7 EC: 236-675-5 Registration number: 01-2119489379-17	titanium dioxide	≤ 11		2, 3, 4
Index: 603-108-00-1 CAS: 78-83-1 EC: 201-148-0 Registration number: 01-2119484609-23	2-methylpropan-1-ol	9-10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335, H336	
CAS: 1309-37-1 EC: 215-168-2 Registration number: 01-2119457614-35-0000	diiron trioxide	≤ 8.5	not classified as dangerous	
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	6-9	Flam. Liq. 2, H225 Eye Irrit. 2, H319	
Index: 606-001-00-8 CAS: 67-64-1 EC: 200-662-2 Registration number: 01-2119471330-49	acetone	4-7	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	5, 8, 9

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date	20th March 2017	Version	3.0
Revision date	24th June 2025		

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 607-009-00-4 CAS: 85-44-9 EC: 201-607-5 Registration number: 01-2119457017-41	phthalic anhydride	1-2	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335	
EC: 905-588-0 Registration number: 01-2119539452-40	Technical xylene (mixed with ethylbenzene)	1-2	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 %	5, 7
CAS: 1333-86-4 EC: 215-609-9 Registration number: 01-2119384822-32	carbon black	≤1		
CAS: 56-81-5 EC: 200-289-5 Registration number: 01-2119471987-18	glycerol	0.1-1		
Index: 013-002-00-1 CAS: 7429-90-5 EC: 231-072-3 Registration number: 01-2119529243-45	aluminium powder (stabilised)	≤0.11	Flam. Sol. 1, H228 Water-react. 2, H261	1, 8
Index: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 Registration number: 01-2119475791-29	2-methoxy-1-methylethyl acetate	≤0.001	Flam. Liq. 3, H226 STOT SE 3, H336	5
Index: 607-096-00-9 CAS: 108-31-6 EC: 203-571-6	maleic anhydride	≤0.0007	Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT RE 1, H372 (the respiratory system) (inhalation) EUH071 Specific concentration limit: Skin Sens. 1A, H317: C ≥ 0.001 %	
Index: 603-064-00-3 CAS: 107-98-2 EC: 203-539-1 Registration number: 01-2119457435-35	1-methoxy-2-propanol	≤0.0001	Flam. Liq. 3, H226 STOT SE 3, H336	5

Notes

** another exposure route cannot be ruled out

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

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date	20th March 2017	Version	3.0
Revision date	24th June 2025		

- Note T: This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.*
- 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.*
- Note W: It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.*

This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

- Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.*
- A substance for which exposure limits are set.*
- The use of the substance is restricted by Annex XVII of REACH Regulation*
- Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.*
- Explosive precursor*
- 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.

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. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date	20th March 2017		
Revision date	24th June 2025	Version	3.0

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

If inhaled

Inhaling vapours can cause corrosion of the breathing system. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause drowsiness or dizziness.

If on skin

May cause an allergic skin reaction.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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. Highly 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.

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017
Revision date 24th June 2025 Version 3.0

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
17 kg	bucket	
0,35 l	can / tin	
0,75 l	can / tin	
3,5 l	can / tin	
9 l	bucket	
18 l	bucket	
16 kg	bucket	
25 kg	bucket	

Storage class

8A - Combustible corrosive substances

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
acetone (CAS: 67-64-1)	OEL 8 hours	1210 mg/m ³
	OEL 8 hours	500 ppm

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
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

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017
Revision date 24th June 2025 Version 3.0

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	OEL 15 minutes	100 ppm
	OEL 8 hours	375 mg/m ³
	OEL 8 hours	100 ppm
	OEL 15 minutes	568 mg/m ³
	OEL 15 minutes	150 ppm
1-methoxy-2-propanol (CAS: 107-98-2)	OEL 15 minutes	150 ppm
	OEL 15 minutes	150 ppm
	OEL 15 minutes	150 ppm
	OEL 15 minutes	150 ppm
	OEL 15 minutes	150 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

1-methoxy-2-propanol				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	553.5 mg/m ³	Acute effects systemic	BL dodavatele
Workers	Inhalation	553.5 mg/m ³	Acute effects local	BL dodavatele
Workers	Dermal	183 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Workers	Inhalation	369 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	78 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	43.9 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Oral	33 mg/kg bw/day	Chronic effects systemic	BL dodavatele

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017

Revision date 24th June 2025

Version

3.0

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

2-methylpropan-1-ol

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	310 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Inhalation	55 mg/m ³	Chronic effects local	BL dodavatele

acetone

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	1210 mg/m ³	Chronic effects systemic	
Workers	Inhalation	2420 mg/m ³	Acute effects local	
Consumers	Dermal	62 mg/kg bw/day	Chronic effects systemic	
Consumers	Inhalation	200 mg/m ³	Chronic effects systemic	
Consumers	Oral	62 mg/kg bw/day	Chronic effects systemic	

aluminium powder (stabilised)

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	3.72 mg/m ³	Chronic effects systemic	echa
Consumers	Oral	3.95 mg/kg bw/day	Chronic effects systemic	echa

carbon black

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

ethanol

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Dermal	343 mg/kg/24h	Chronic effects systemic	BL dodavatele
Consumers	Dermal	206 mg/kg/24h	Chronic effects systemic	BL dodavatele
Workers	Inhalation	1900 mg/m ³	Acute effects systemic	BL dodavatele
Consumers	Inhalation	950 mg/m ³	Acute effects systemic	BL dodavatele
Workers	Inhalation	950 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	114 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Oral	87 mg/kg/24h	Chronic effects local	BL dodavatele

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017
Revision date 24th June 2025 Version 3.0

maleic anhydride				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	0.19 mg/m ³	Chronic effects systemic	ECHA
Workers	Inhalation	0.8 mg/m ³	Acute effects systemic	ECHA
Consumers	Inhalation	0.05 mg/m ³	Chronic effects systemic	ECHA
Consumers	Inhalation	0.08 mg/m ³	Chronic effects local	ECHA
Consumers	Dermal	0.1 mg/kg bw/day	Chronic effects systemic	ECHA
Consumers	Oral	0.06 mg/kg bw/day	Chronic effects systemic	ECHA

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

phthalic anhydride				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	49.4 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Dermal	14 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	8.7 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	5 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	5 mg/kg bw/day	Chronic effects systemic	BL dodavatele

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

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017
Revision date 24th June 2025 Version 3.0

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

PNEC

1-methoxy-2-propanol		
Route of exposure	Value	Source
Freshwater environment	10 mg/l	BL dodavatele
Marine water	1 mg/l	BL dodavatele
Water (intermittent release)	100 mg/l	BL dodavatele
Microorganisms in sewage treatment	100 mg/l	BL dodavatele
Freshwater sediment	52.3 mg/kg of dry substance of sediment	BL dodavatele
Sea sediments	5.2 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	4.59 mg/kg of dry substance of soil	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

2-methylpropan-1-ol		
Route of exposure	Value	Source
Freshwater environment	0.4 mg/l	BL dodavatele
Marine water	0.04 mg/l	BL dodavatele
Water (intermittent release)	11 mg/l	BL dodavatele
Microorganisms in sewage treatment	10 mg/l	BL dodavatele
Freshwater sediment	1.52 mg/kg of dry substance of sediment	BL dodavatele
Sea sediments	0.152 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	0.0699 mg/kg of dry substance of soil	BL dodavatele

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017
Revision date 24th June 2025 Version 3.0

acetone		
Route of exposure	Value	Source
Microorganisms in sewage treatment	100 mg/l	echa
Freshwater environment	10.6 mg/l	
Water (intermittent release)	21 mg/l	
Marine water	1.06 mg/l	
Freshwater sediment	30.4 mg/kg of dry substance	
Sea sediments	3.04 mg/kg of dry substance	
Soil (agricultural)	29.5 mg/kg of dry substance of soil	

aluminium powder (stabilised)		
Route of exposure	Value	Source
Microorganisms in sewage treatment	20 mg/l	echa

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

ethanol		
Route of exposure	Value	Source
Freshwater environment	0.96 mg/l	BL dodavatele
Marine water	0.79 mg/l	BL dodavatele
Freshwater sediment	3.6 mg/kg	BL dodavatele
Soil (agricultural)	0.63 mg/kg	BL dodavatele
Microorganisms in sewage treatment	580 mg/l	BL dodavatele
Secondary poisoning	720 mg/kg of food	BL dodavatele

maleic anhydride		
Route of exposure	Value	Source
Freshwater environment	75 µg/l	ECHA
Marine water	7.5 µg/l	ECHA
Water (intermittent release)	428.1 µg/l	ECHA
Microorganisms in sewage treatment	4.46 mg/l	ECHA
Freshwater sediment	60 µg/kg	ECHA
Sea sediments	6 µg/kg	ECHA
Soil (agricultural)	10 µg/kg	ECHA

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

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017
Revision date 24th June 2025 Version 3.0

phthalic anhydride		
Route of exposure	Value	Source
Freshwater environment	1 mg/l	BL dodavatele
Water (intermittent release)	5.6 mg/l	BL dodavatele
Freshwater sediment	3.8 mg/kg of dry substance of sediment	BL dodavatele
Marine water	0.1 mg/l	BL dodavatele
Sea sediments	0.38 mg/kg of dry substance of sediment	BL dodavatele
Microorganisms in sewage treatment	10 mg/l	BL dodavatele
Soil (agricultural)	0.173 mg/kg of dry substance of soil	BL dodavatele

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
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

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017
Revision date 24th June 2025 Version 3.0

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 or face shield (based on the nature of the work performed).

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 ≥ 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. When selecting gloves, consider the properties of the product and the duration of exposure. Replace gloves at the first signs of wear or damage. 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)	0.4 mm	>480 min	6

Respiratory protection



Mask with a filter against organic vapours in a poorly ventilated environment. Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

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

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
Colour	white, black, red, brown, blue, grey, green, yellow, reddish brown, aluminum
Odour	after organic solvents
Melting point/freezing point	data not available
1-methoxy-2-propanol (CAS: 107-98-2)	-96 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	-66 °C (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	<-90 °C (BL dodavatele)

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date	20th March 2017	Version	3.0
Revision date	24th June 2025		

acetone (CAS: 67-64-1)	-94.7 °C (BL dodavatele)
aluminium powder (stabilised) (CAS: 7429-90-5)	660 °C (ECHA)
carbon black (CAS: 1333-86-4)	3652-3697 °C (BL dodavatele)
diiron trioxide (CAS: 1309-37-1)	>1000 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	-114.15 °C (BL dodavatele)
glycerol (CAS: 56-81-5)	18 °C (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	51-53 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	-78 °C (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	131.6 °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)
Boiling point or initial boiling point and boiling range	data not available
1-methoxy-2-propanol (CAS: 107-98-2)	120.15 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	145.8 °C (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	108 °C (BL dodavatele)
acetone (CAS: 67-64-1)	56.05 °C (BL dodavatele)
aluminium powder (stabilised) (CAS: 7429-90-5)	2450 °C (ECHA)
ethanol (CAS: 64-17-5)	78.3 °C (BL dodavatele)
glycerol (CAS: 56-81-5)	290 °C (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	202 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	124-126.5 °C (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	284.5 °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 hazard class I (ČSN 65 0201)
ethanol (CAS: 64-17-5)	inflammable (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	inflammable (odvozeno od bodu vzplanutí)
Technical xylene (mixed with ethylbenzene)	inflammable (BL dodavatele)
Lower and upper explosion limit	
bottom	0.6 % (for hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic hydrocarbons, <2% aromatic hydrocarbons)
1-methoxy-2-propanol (CAS: 107-98-2)	1.48 % (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1.5 % (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	1.7 % (BL dodavatele)
acetone (CAS: 67-64-1)	2.5 % (BL dodavatele)
ethanol (CAS: 64-17-5)	3.3 % (BL dodavatele)
glycerol (CAS: 56-81-5)	2.7 % (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	1.4 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	1.2 % (literatura)
Technical xylene (mixed with ethylbenzene)	0.8 % (BL dodavatele)
toluene (CAS: 108-88-3)	1.3 % (BL dodavatele)
upper	19 % (for ethanol)
1-methoxy-2-propanol (CAS: 107-98-2)	13.7 % (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	7.0 % (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	10.9 % (BL dodavatele)
acetone (CAS: 67-64-1)	14.3 % (BL dodavatele)
ethanol (CAS: 64-17-5)	19 % (BL dodavatele)
glycerol (CAS: 56-81-5)	19 % (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	7.1 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	7.6 % (literatura)
Technical xylene (mixed with ethylbenzene)	7 % (BL dodavatele)
toluene (CAS: 108-88-3)	6.7 % (BL dodavatele)
Flash point	6 °C (PND 67 3015)

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date	20th March 2017	Version	3.0
Revision date	24th June 2025		

2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	45.5 °C (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	31 °C (BL dodavatele)
acetone (CAS: 67-64-1)	-17 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	>600 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	12.85 °C (BL dodavatele)
glycerol (CAS: 56-81-5)	199 °C (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	103 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	27 °C (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	152 °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
1-methoxy-2-propanol (CAS: 107-98-2)	287 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	333 °C (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	400 °C (BL dodavatele)
acetone (CAS: 67-64-1)	465 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	>140 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	362.85 °C (BL dodavatele)
glycerol (CAS: 56-81-5)	370 °C (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	475 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	415 °C (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	580 °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
maleic anhydride (CAS: 108-31-6)	>200 °C (BL dodavatele)
pH	non-soluble (in water)
2-methylpropan-1-ol (CAS: 78-83-1)	7 (undiluted at 20 °C) (BL dodavatele)
carbon black (CAS: 1333-86-4)	6-11 (3% solution) (BL dodavatele)
diiron trioxide (CAS: 1309-37-1)	5-8 (5% solution) (BL dodavatele)
ethanol (CAS: 64-17-5)	7 (undiluted at 20 °C) (BL dodavatele)
glycerol (CAS: 56-81-5)	7 (undiluted) (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	0.8 (20% solution) (BL dodavatele)
Kinematic viscosity	>20.5 mm ² /s at 40 °C
	data not available
1-methoxy-2-propanol (CAS: 107-98-2)	1.86 mm ² /s at 25 °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-methoxy-1-methylethyl acetate (CAS: 108-65-6)	198 g/l při 20°C (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	70 g/l (20 °C) (BL dodavatele)
aluminium powder (stabilised) (CAS: 7429-90-5)	20 µg/l při 20°C (ECHA)
ethanol (CAS: 64-17-5)	789 000 mg/l při 20°C (BL dodavatele)
glycerol (CAS: 56-81-5)	1000 g/l (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	5.3 g/l při 20 °C (pH 6) (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)
Partition coefficient n-octanol/water (log value)	LogPow -0.35 to 6 (range of substances contained)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1.2 (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	1 (BL dodavatele)
ethanol (CAS: 64-17-5)	-0.35 (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	1.8 (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	3.12-3.2 (BL dodavatele)
toluene (CAS: 108-88-3)	2.73 (BL dodavatele)

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date	20th March 2017	Version	3.0
Revision date	24th June 2025		

Vapour pressure	<1 hPa to 240 hPa at 20 °C (range of substances contained)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	3.60 at 20 °C (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	16 hPa at 20 °C (BL dodavatele)
acetone (CAS: 67-64-1)	240 hPa at 20 °C (BL dodavatele)
aluminium powder (stabilised) (CAS: 7429-90-5)	0.13-1300 Pa at 974 °C (ECHA)
ethanol (CAS: 64-17-5)	57.26 hPa at 19.65 °C (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	1.33 hPa at 44 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	12-21 at 20 °C (literatura)
phthalic anhydride (CAS: 85-44-9)	0.0006 hPa at 26.6 °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)
Density and/or relative density	
Density	0.94-1.03 g/cm ³ at 23 °C (manufacturer's methodology B5/TD1-5 (ČSN EN ISO 2811-2))
1-methoxy-2-propanol (CAS: 107-98-2)	0.919 g/cm ³ at 25 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	0.967 g/cm ³ at 20 °C (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	0.8017 g/cm ³ at 20 °C (BL dodavatele)
acetone (CAS: 67-64-1)	0.790 g/cm ³ at 20 °C (BL dodavatele)
aluminium powder (stabilised) (CAS: 7429-90-5)	2.7 g/cm ³ at 20 °C (ECHA)
carbon black (CAS: 1333-86-4)	1.7-1.9 g/cm ³ at 20 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	0.7844 g/cm ³ at 25 °C (BL dodavatele)
glycerol (CAS: 56-81-5)	1.26 g/cm ³ at 20 °C (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	1.32 g/cm ³ at 55 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	0.8812 g/cm ³ at 20 °C (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	1.527 g/cm ³ at 20 °C (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)
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid, without foreign mechanical impurities, the formation of a mixable deposit is allowed (manufacturer's methodology B5/TD1-17 (ČSN EN ISO 1513))
Volatile organic compound (VOC) content in the product: product category and subcategory - not classified.	
9.2. Other information	
Ignition temperature	320 °C (PND 33 0371)
Combustion temperature	12 °C (PND 65 6212)
Vapour density	> 1 (air = 1)
Molar weight	data not available
1-methoxy-2-propanol (CAS: 107-98-2)	90.1 g/mol (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	98.06 g/mol (BL dodavatele)
Content of organic solvents (VOC)	0.709 kg/kg (calculation)
Total organic carbon (TOC)	0.513 kg/kg (calculation)
Solid content (dry matter)	25-45 % weight (manufacturer's methodology B5/TD1-12B (ČSN EN ISO 3251))
Max. VOC content in the product in its ready to use condition	671 g/l (calculation)
Temperature class: T2 (PND 33 0371); Calorific value: 29.11 MJ/kg (PND 65 6169); Calorific value: 31.33 MJ/kg (PND 65 6169).	

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is highly flammable.

10.2. Chemical stability

The product is stable under normal conditions.

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017
Revision date 24th June 2025 Version 3.0

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. 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.

C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	ATE		27773 mg/kg				Calculation of value	
Dermal	ATE		78571 mg/kg				Calculation of value	
Inhalation (vapor)	ATE		785.7 mg/l				Calculation of value	

1-methoxy-2-propanol								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		4016 mg/kg		Rat			BL dodavatele
Dermal	LD ₅₀		>2000 mg/kg		Rabbit			BL dodavatele
Inhalation (vapor)	LC ₅₀		>25.8 mg/l	6 hours	Rat			BL dodavatele

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

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017

Revision date 24th June 2025

Version

3.0

2-methylpropan-1-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>2000 mg/kg		Rat (Rattus norvegicus)			BL dodavatele
Inhalation (vapor)	LC ₅₀		>18.18 mg/l of air	14 days	Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀	OECD 402	>2000 mg/kg		Rabbit			BL dodavatele

acetone

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		5800 mg/kg bw		Rat			
Dermal	LD ₅₀		>15800 mg/kg bw		Rabbit			
Inhalation	LC ₅₀		76 mg/l	4 hours	Rat			

aluminium powder (stabilised)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		15900 mg/kg bw		Rat			echa
Inhalation	LC ₅₀		888 mg/m ³ of air	4 hours	Rat			echa

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

diiron trioxide

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

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017

Revision date 24th June 2025

Version

3.0

ethanol								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		10470 mg/kg		Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀		15800 mg/kg		Rat (Rattus norvegicus)			BL dodavatele
Inhalation	LD ₅₀		30000 mg/m ³		Rat (Rattus norvegicus)			BL dodavatele

glycerol								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		27200 mg/kg bw		Rat			BL dodavatele
Oral	LD ₅₀		23000 mg/kg bw		Mouse	M		BL dodavatele
Inhalation (vapor)	LC ₅₀		>2.75 mg/l	4 hours	Rat			BL dodavatele

maleic anhydride								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		1090 mg/kg bw		Rat (Rattus norvegicus)			ECHA
Inhalation	LC ₅₀		4.35 mg/l of air	60 minutes	Rat (Rattus norvegicus)			ECHA
Dermal	LD ₅₀		2620 mg/kg bw		Rabbit			ECHA

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 dodavatele
Dermal	LD ₅₀	OECD 402	14112 mg/kg bw		Rabbit			BL dodavatele
Inhalation	NOAEC	EPA OTS 798.2450	550 ppm	13 weeks	Rat (Rattus norvegicus)			BL dodavatele

phthalic anhydride								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		1530 mg/kg bw/day		Rat (Rattus norvegicus)			BL dodavatele

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017

Revision date 24th June 2025

Version

3.0

phthalic anhydride

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Dermal	LD ₅₀		>3160 mg/kg bw/day		Rabbit			BL dodavatele
Inhalation (aerosols)		OECD 403	>2.14 mg/l of air		Rat (Rattus norvegicus)			BL dodavatele

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 dodavatele
Skin	LD ₅₀		12126 mg/kg bw		Rabbit			BL dodavatele
Inhalation (vapor)	LD ₅₀		6700 ppm		Rat (Rattus norvegicus)			BL dodavatele

titanium dioxide

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

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 dodavatele
Skin	LD ₅₀		>5000 mg/kg bw		Rabbit			BL dodavatele
Inhalation (vapor)	STEL		100 ppm	15 minutes	Human			BL dodavatele

Skin corrosion/irritation

Causes skin irritation.

2-methylpropan-1-ol

Route of exposure	Result	Method	Exposure time	Species	Source
	Irritating	OECD 404		Rabbit	BL dodavatele

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017

Revision date 24th June 2025

Version

3.0

Serious eye damage/irritation

Causes serious eye damage.

2-methylpropan-1-ol

Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Serious eye damage	OECD 405		Rabbit	BL dodavatele

Respiratory or skin sensitisation

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Data for the components of the mixture are not available.

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.

acetone

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.

phthalic anhydride

Route of exposure	Parameter	Method	Value	Result	Species	Sex	Source
Oral	NOAEL		1000 mg/kg bw/day		Rat (Rattus norvegicus)		BL dodavatele

Technical xylene (mixed with ethylbenzene)

Route of exposure	Parameter	Method	Value	Result	Species	Sex	Source
Inhalation (vapor)	NOAEC	OECD 451	<75 ppm		Rat (Rattus norvegicus)		BL dodavatele

toluene

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

Reproductive toxicity

Suspected of damaging the unborn child.

2-methylpropan-1-ol

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Effects on fertility	NOAEL		7.5 mg/l		Negative	Rat (Rattus norvegicus)		BL dodavatele
Developmental toxicity	NOAEL	OECD 414	10 mg/l		Negative	Rat (Rattus norvegicus)		BL dodavatele

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017

Revision date 24th June 2025

Version

3.0

ethanol								
Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Effects on fertility	NOAEL		13800 mg/kg/24h			Mouse		BL dodavatele
Effects on fertility	NOAEC		30400 mg/m ³			Rat (Rattus norvegicus)		BL dodavatele
Developmental toxicity	NOAEL		5200 mg/kg/24h			Rat (Rattus norvegicus)		BL dodavatele
Developmental toxicity	NOAEC		39000 mg/m ³			Rat (Rattus norvegicus)		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

phthalic anhydride								
Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
	NOAEL		3570 mg/kg bw/day			Mouse		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 drowsiness or dizziness. Data for the components of the mixture are not available.

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017

Revision date 24th June 2025

Version

3.0

Repeated dose toxicity

2-methylpropan-1-ol

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Drinking water	NOAEL	Negative	OECD 408	1450 mg/kg	90 days	Rat (Rattus norvegicus)		BL dodavatel e

acetone

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Inhalation (vapor)	NOAEC			50100 mg/m ³	8 hours			BL dodavatel e
Oral	NOAEL			900 mg/kg	90 days	Rat		

aluminium powder (stabilised)

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			200-3225 mg/kg bw/day		Rat		echa
Inhalation	LOAEC			50 mg/m ³ of air		Rat		echa

ethanol

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			1730 mg/kg/24h		Rat (Rattus norvegicus)		BL dodavatel e

maleic anhydride

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			10 mg/kg bw/day		Rat (Rattus norvegicus)		ECHA
Inhalation	NOAEC			3.3 mg/m ³ of air		Rat (Rattus norvegicus)		ECHA

phthalic anhydride

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			500 mg/kg bw/day		Rat (Rattus norvegicus)		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

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017

Revision date 24th June 2025

Version

3.0

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

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.

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

Harmful to aquatic life with long lasting effects.

Acute toxicity

1-methoxy-2-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		6812 mg/l	96 hours	Fish (Leuciscus idus (Jesen zlatý))		BL dodavatel e
LC ₅₀	OECD 203	20800 mg/l	96 hours	Fish (Pimephales promelas (střevle))		BL dodavatel e
LC ₅₀	OECD 202	21100 mg/l	48 hours	Daphnia (Daphnia magna (perloočka velká))		BL dodavatel e
ErC ₅₀	OECD 201	>1000 mg/l	7 days	Algae (Pseudokirchneriella subcapitata (zelené řasy))		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

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date
Revision date

20th March 2017
24th June 2025

Version

3.0

2-methylpropan-1-ol

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>100 mg/l	96 hours	Fish (Pimephales promelas)		BL dodavatel e
EC ₅₀		>100 mg/l	48 hours	Daphnia (Daphnia pulex)		BL dodavatel e
EC ₅₀	OECD 201	>100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e
EC ₁₀	OECD 209	>100 mg/l	16 hours	Bacteria (Pseudomonas putida)		BL dodavatel e

acetone

Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀		>100 mg/l	48 hours	Daphnia (Daphnia magna)		
EC ₅₀		8300 mg/l	96 hours	Fish (Lepomis macrochirus)		
EC ₅₀		7500 mg/l	96 hours	Algae (Selenastrum capricornutum)		
LC ₅₀		7500 mg/l	96 hours	Fish (Leuciscus idus)		
LC ₅₀		6500 mg/l	96 hours	Fish (Oncorhynchus mykiss)		

aluminium powder (stabilised)

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		430-3910 µg/l	16 days	Fish (Oncorhynchus mykiss)		echa
EC ₅₀		1.5-2.56 mg/l	48 hours	Aquatic invertebrates		echa
EC ₅₀		5.4-570 µg/l	96 hours	Algae and other aquatic plants		echa

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date

20th March 2017

Revision date

24th June 2025

Version

3.0

diiron trioxide

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>1000 mg/l	48 hours	Fish (Leuciscus idus)		BL dodavatel e

ethanol

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		11200 mg/l		Fish (Oncorhynchus mykiss)		BL dodavatel e
LC ₅₀		5012 mg/l		Invertebrates		BL dodavatel e
NOEC		9.6 mg/l		Invertebrates		BL dodavatel e
LC ₅₀		275 mg/l		Algae (Selenastrum capricornutum)		BL dodavatel e
NOEC		115 mg/l		Algae (Selenastrum capricornutum)		BL dodavatel e
LC ₅₀		4432 mg/l		Algae and other aquatic plants		BL dodavatel e
NOEC		280 mg/l		Algae and other aquatic plants		BL dodavatel e
LC ₅₀		633 mg/kg of dry substance of soil		Higher plants		BL dodavatel e
LC ₅₀		5800 mg/l		Microorganisms (Photobacterium phosphoreum)		BL dodavatel e

glycerol

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		54000 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e
EC ₅₀		1955 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel e

maleic anhydride

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		75 mg/l	96 hours	Fish (Oncorhynchus mykiss)		ECHA
EC ₅₀		42.81 mg/l	48 hours	Aquatic invertebrates		ECHA
EC ₅₀		74.35 mg/l	72 hours	Algae and other aquatic plants		ECHA

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date

20th March 2017

Revision date

24th June 2025

Version

3.0

maleic anhydride

Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀		12.5 mg/l	15 minutes	Microorganisms (Photobacterium phosphoreum)		ECHA

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

phthalic anhydride

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		560 mg/l	168 hours	Fish (Danio rerio)		BL dodavatel e
EC ₀		≥640 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel e
EC ₅₀		>640 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel e
EC ₀		≤100 mg/l	72 hours	Algae (Desmodesmus subspicatus)		BL dodavatel e
NOEC		≥100 mg/l	72 hours	Algae (Desmodesmus subspicatus)		BL dodavatel e

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017

Revision date 24th June 2025

Version

3.0

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

Chronic toxicity

2-methylpropan-1-ol

Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		20 mg/l	21 days	Daphnia (Daphnia magna)		BL dodavatel e

n-butyl acetate

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

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

1-methoxy-2-propanol

Parameter	Method	Value	Exposure time	Environment	Result	Source
Biologické odbourání	OECD 301E	96 %	28 days		Easily biodegradable	BL dodavatel e

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017

Revision date 24th June 2025

Version

3.0

2-methoxy-1-methylethyl acetate

Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301F	83 %			Easily biodegradable	BL dodavatel e

2-methylpropan-1-ol

Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301D	>70 %	28 days		Easily biodegradable	BL dodavatel e

acetone

Parameter	Method	Value	Exposure time	Environment	Result	Source
		82 %			Biodegradable	

glycerol

Parameter	Method	Value	Exposure time	Environment	Result	Source
		94 %	24 hours		Easily biodegradable	BL dodavatel e

12.3. Bioaccumulative potential

Data for the mixture are not available.

1-methoxy-2-propanol

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
BCF	<2					BL dodavatele

2-methylpropan-1-ol

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
Log Pow	1				25°C	BL dodavatele

acetone

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
Log Pow	-0.24					

glycerol

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
Log Kow	-1.76					BL dodavatele

phthalic anhydride

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
	3.4		Fish (Oncorhynchus mykiss)			BL dodavatele

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017
Revision date 24th June 2025 Version 3.0

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

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.

2-methylpropan-1-ol			
Parameter	Value	Result	Source
Koc	2.1	High	BL dodavatele

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. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. 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

II

14.5. Environmental hazards

No.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

SAFETY DATA SHEET

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date	20th March 2017	Version	3.0
Revision date	24th June 2025		

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.

33

UN number

1263

Classification code

F1

Safety signs

3



Road transport - ADR

Special provisions

163, 367, 640D, 650

Limited quantities

5 L

Excepted quantities

E2

Packaging

Packing instructions

P001, IBC02, R001

Special packing provisions

PP1

Mixed packing provisions

MP19

Portable tanks and bulk containers

Guidelines

T4

Special provisions

TP1, TP8, TP28

ADR tank

Tank code

LGBF

Vehicles for tank carriage

FL

Transport category

2

Tunnel restriction code

(D/E)

Special provision for

operation

S2, S20

Railway transport - RID

Special provisions

163, 367, 640D, 650

Excepted quantities

E2

Packaging

Packing instructions

P001, IBC02, R001

Special packing provisions

PP1

Mixed packing provisions

MP19

Portable tanks and bulk containers

Guidelines

T4

Special provisions

TP1, TP8, TP28

RID Tanks

Tank code

LGBF

Transport category

0

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



C2001 Nitrocellulose topcoat for wooden and metal furniture CELOX

Creation date 20th March 2017
Revision date 24th June 2025 Version 3.0

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. Product contains reportable explosives precursors: Reporting of suspicious transactions, disappearances and thefts according to Regulation (EU) 2019/1148, Article 9. 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).

SECTION 16: Other information

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

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H302	Harmful if swallowed.
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.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to the respiratory system through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to the central nervous system through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

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.
P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing vapours/spray.

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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/eye protection/protective clothing/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
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 Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
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 plan
EU	European Union
EuPCS	European Product Categorisation System
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Flam. Sol.	Flammable solid
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
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

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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
Resp. Sens.	Respiratory sensitization
RID	Agreement on the transport 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
Water-react.	Substance or mixture which in contact with water emits flammable gas

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 3.0 replaces the SDS version from 09.07.2021. Changes were made in sections 1, 2, 3, 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 sušících 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 nespécializovaném zařízení s možností expozice osob a životního prostředí	PROC8a přeprava výrobku (napouštění / vypouštění) z / do nádob / kontejnerů v nespécializovaných 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.