

	S	2160	HOSTAGRU	ND® BLACKSM	ITH COAT
reatior	n date	02nd N	4ay 2019		
evisior	ı date	29th Ja	anuary 2024	Version	3.0
естіо	N 1: Identification	of the s	ubstance/mixture	and of the company/u	ndertaking
.1.	Product identifier			S 2160 HOSTAG	GRUND® BLACKSMITH COAT
	Substance / mixture			mixture	
	UFI			FKVV-M02Y-U00	C-0KEM
			the substance or r	nixture and uses advis	ed against
	Mixture's intended				
	Anticorrosive single c	oat black	smith		
	Main intended use				
	PC-PNT-3		. 5	Protective and functional	
	Mixture uses advis	ed again	ist		
	not available				
	Exposure scenario is		,		
	Details of the supp	lier of th	ie safety data snee	it.	
	Manufacturer Name or trade				
	Address	name		BARVY A LAKY T	-
	Address			č.p.1, Skrchov, Croch Bopublic	679.61
	Identification n	umbor (C	ואס	Czech Republic 43420371	
	VAT Reg No			CZ43420371	
	Phone			+420 516 474 2	911
	E-mail			info@teluria.cz	
	Web address			http://www.bal.	CZ
	Competent person	respons	ible for the safety	1	-
	Name			Ing. Štěpánka N	lováková
	E-mail			stepanka.novako	
4.	Emergency telepho	ne num	ber	,	-
	European emergency				

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 Eye Irrit. 2, H319 STOT SE 3, H335, H336 STOT RE 2, H373 Aquatic Chronic 2, H411 **Most serious adverse physico-chemical effects**

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May cause respiratory irritation. May cause drowsiness or dizziness. Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

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2.2.	Label elements Hazard pictogram	m	¥,					
	Signal word							
	Warning							
	Hazardous substances hydrocarbons, C9, aromatics xylene (mixture of isomers and ethylbenzene)							
	Hazard statemer	nts						
	H226		Flammable liquid	and vapour.				
	H315		Causes skin irritation.					
	H319		Causes serious eye irritation.					
	H335		May cause respiratory irritation.					
	H336		May cause drowsiness or dizziness.					
	H373		May cause damage to organs through prolonged or repeated exposure.					
	H411		Toxic to aquatic I	ife with long lasting effec	ts.			
	Precautionary st	atements						
	P101		If medical advice	is needed, have product	container or label at hand.			
	P102		Keep out of reach	n of children.				
	P210		No smoking.		s, open flames and other ignition source			
	P260		Do not breathe v					
	P271		,	s or in a well-ventilated a	rea.			
	P273		Avoid release to t					
	P280			gloves/eye protection.				
	P333+P313			r rash occurs: Get medic				
	P501				ance with local regulations by handing waste or a site designated by the town.			
	Supplemental in	formation						
	Density				23 °C (EN ISO 2811-1)			
	VOC			0,37 kg/kg				
	TOC			0,32 kg/kg				
	Dry matter			44 % volume				
				cat. A (i) SB: 5	00 g/l			
	VOC limit value				5,			

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. Substances are neither listed in Annex XIV of REACH nor on the REACH candidate list of substances of very high concern (SVHC).

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according to Commission Regulation (EU) 2020/878 as amended						
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

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: 649-356-00-4 EC: 918-668-5 Registration number: 01-2119455851-35	nber: Asp. Tox. 1, H304 STOT SE 3, H335, H336		2, 5	
EC: 905-562-9 Registration number: 01-2119555267-33	xylene (mixture of isomers and ethylbenzene)	10-12	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: Acute Tox. 4, H312+H332: C ≥ 12.5 %	1, 4
CAS: 34590-94-8 EC: 252-104-2 Registration number: 01-2119450011-60	(2-methoxymethylethoxy)propanol	4		4
Index: 030-011-00-6 CAS: 7779-90-0 EC: 231-944-3 Registration number: 01-21194850-44-40- 0001	trizinc bis(orthophosphate)	3	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
Index: 013-002-00-1 CAS: 7429-90-5 EC: 231-072-3 Registration number: 01-2119529243-45	aluminium powder (stabilised)	<2	Flam. Sol. 1, H228 Water-react. 2, H261	3
Index: 649-330-00-2 EC: 919-446-0 Registration number: 01-2119458049-33	hydrocarbons, C9 - C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	0,9	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 STOT RE 1, H372 (central nervous system) Aquatic Chronic 2, H411 EUH066	2, 5
Index: 030-013-00-7 CAS: 1314-13-2 EC: 215-222-5 Registration number: 01-2119463881-32	zinc oxide	0,5	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	

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	according to Commission Re	egulation (EU) 2020/878 a	s amended	
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Notes

- 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 P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260- P262-P301 + P310-P331 shall apply. This note applies only to certain complex oil-derived substances in Part 3.
- 3 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.
- 4 A substance for which exposure limits are set.
- 5 Fulfilled Note P

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. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

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

Most important symptoms and effects, both acute and delayed

If inhaled

4.2.

Cough, headache. May cause respiratory irritation. May cause drowsiness or dizziness.

If on skin

Causes skin irritation.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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4.3. Indication of any immediate medical attention and special treatment needed Symptomatic treatment. If you see a doctor, take this safety data sheet with you.

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

For workers apart from emergency teams: Avoid inhalation of vapour, prevent skin and eye contact. Wear appropriate protective clothing and gloves. Wear eye protection and face shield if necessary. Use suitable respiratory protection. In closed spaces, ensure fresh air supply. Eliminate all ignition sources. No smoking and no open fire. Keep unnecessary personnel away.

For members of emergency teams: Use appropriate personal protective equipment – protective clothing with antistatic finish and impermeable work shoes. Treat unprotected skin with barrier cream. Anti-chemical protective gloves. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. If possible prevent leakage, close container and place damaged container in protective container.

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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.1.1. General health measures

Use the product after due familiarization with its hazard characteristics and proper training or training in its safe use. Do not eat, drink, smoke on the site. Wash your hands and other contaminated parts of body by soap and water before eating and after the use of product is finished. Abide by requirements on personal hygiene when working with hazardous chemical products.

Use technical equipment on the site to control human and environment exposure. Regularly inspect the equipment, ensure cleaning, timely maintenance and permanent functionality. When working, use the recommended personal protective equipment listed in 8.2 of the Safety Data Sheet and in Annex to the Safety Data Sheet. Keep the protective clothing and protective equipment sound and clean. Immediately replace the damaged protective aids for sound ones. Keep the site, tools and aids clean and in sound state. On the site, keep the product in labelled containers or tanks. Store product waste and wastes contaminated by the product in suitable and properly labelled vessels located on designated marked and protected places. Ensure long-term storing of wastes containing the product outside the site.

7.1.2. Fire precautions

When using the product, prevent potential ignition or explosion of the mixture of product vapour and air caused by contact with open flame, sparks, extremely hot surfaces, electrostatic discharges. Do not smoke on the site, use non-sparking tools. Places with increased occurrence of the vapour-air mixture need to be ventilated to prevent formation of explosive mixtures. Solvent vapours are heavier than air. The site should be protected from electrostatic discharges.

7.1.3. Environmental precautions

Handle the product on a site technically adapted to avoid accidental leakage to sewerage systems, water or soil. Product waste and wastes contaminated by the product to be disposed of as hazardous waste. Waste water contaminated by the product may only be discharged to water reservoirs after the product components are properly removed in a waste water treatment plant or in other appropriate treatment plant able to remove drifted product components from water. Do not pour the product to waste water. Emissions of solvent from point sources are subjected to control requirements acc. to air protection regulations.

7.2. Conditions for safe storage, including any incompatibilities

Store the product in properly marked, closed containers in well ventilated spaces at 5 – 25 °C. The storages must meet the requirements on storing of flammable liquids and substances hazardous for aquatic life and soil. Protect from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Store away from oxidising substances and strong acids. Do not store with food, drinks, feed material, medicines. Storages should be protected from static electricity. First aid kit and water suitable for eye rinsing should be available. Keep away from products that are corrosive to metals (eg acids or pool chemicals).

Storage class

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

Storage temperature

min 5 °C, max 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)

Use in coating compositions was assessed for the indiviual substances of the mixture. Conditions of safe use of the registered coating composition components specified in exposure scenarios to SDSs of the components are incorporated to this Safety Data Sheet and its Annex.

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 2000/39/I		
Substance name (component)	Туре	Value	Note	
xylenes	OEL 8 hours	221 mg/m ³	Skin	

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European Union

European Union	Com	mission Directive 2000/39/EC	
Substance name (component)	Туре	Value	Note
	OEL 8 hours	50 ppm	
xylenes	OEL 15 minutes	442 mg/m ³	Skin
	OEL 15 minutes	100 ppm	
(2-methoxymethylethoxy)propanol (CAS: 34590-	OEL 8 hours	308 mg/m ³	Skin
94-8)	OEL 8 hours	50 ppm	3611

DNEL

(2-methoxym	ethylethoxy)pr	opanol			
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	308 mg/m ³	Chronic effects systemic		
Workers	Dermal	283 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	37.2 mg/m ³	Chronic effects systemic		
Consumers	Dermal	121 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	36 mg/kg bw/day	Chronic effects systemic		
hydrocarbons	s, C9 - C12, n-al	kanes, isoalk	anes, cyclics, aromatics ((2-25%)	
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	330 mg/m ³	Chronic effects systemic		
Workers	Dermal	44 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	71 mg/m ³	Chronic effects systemic		
Consumers	Dermal	26 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	26 mg/kg bw/day	Chronic effects systemic		
hydrocarbons	s, C9, aromatics				
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	150 mg/kg	Chronic effects systemic		
Workers	Dermal	25 mg/kg	Chronic effects systemic		
Consumers	Inhalation	32 mg/kg	Chronic effects systemic		
Consumers	Dermal	11 mg/kg	Chronic effects systemic		
Consumers	Oral	11 mg/kg	Chronic effects systemic		



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trizinc bis(ort	hophosphate)				-
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	5 mg/kg	Chronic effects systemic		
Workers	Dermal	83 mg/kg	Chronic effects systemic		
Consumers	Inhalation	2.5 mg/kg	Chronic effects systemic		
Consumers	Dermal	83 mg/kg	Chronic effects systemic		
Consumers	Oral	0.83 mg/kg	Chronic effects systemic		
vylene (mivt	ure of isomers	and othylbon	70no)		
Workers /	Route of			Value	
consumers	exposure	Value	Effect	determination	Source
Workers	Inhalation	77 mg/m ³	Chronic effects systemic		
Workers	Inhalation	289 mg/m ³	Acute effects systemic		
Workers	Inhalation	289 mg/m ³	Acute effects local		
Workers	Dermal	180 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	14.8 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	174 mg/m ³	Acute effects systemic		
Consumers	Inhalation	174 mg/m ³	Acute effects local		
Consumers	Dermal	108 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	1.6 mg/kg bw/day	Chronic effects systemic		
zinc oxide		•		•	
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	5 mg/m ³	Chronic effects systemic		
Workers	Dermal	83 mg/kg bw/day	Chronic effects systemic		
Workers	Inhalation	0.5 mg/m ³	Chronic effects local		
Consumers	Inhalation	2.5 mg/m ³	Chronic effects systemic		
Consumers	Dermal	83 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	0.83 mg/kg bw/day	Chronic effects systemic		

PNEC

(2-methoxymethylethoxy)propanol				
Route of exposure	Value	Value determination	Source	
Freshwater environment	19 mg/l			
Marine water	1.9 mg/l			



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(2-methoxymethylethoxy)propanoi		
Route of exposure	Value	Value determination	Source
Freshwater sediment	70.2 mg/kg of dry substance of sediment		
Sea sediments	7.02 mg/kg of dry substance of sediment		
Soil (agricultural)	2.74 mg/kg of dry substance of soil		
Microorganisms in sewage treatment	4168 mg/l		
Water (intermittent release)	190 mg/l		
trizinc bis(orthophosphat	e)		
Route of exposure	Value	Value determination	Source
Freshwater environment	0.0206 mg/l		
Marine water	0.0061 mg/l		
Microorganisms in sewage treatment	0.1 mg/l		
Freshwater sediment	117.8 mg/kg of dry substance of sediment		
Sea sediments	56.5 mg/kg of dry substance of sediment		
Soil (agricultural)	35.6 mg/kg of dry substance of soil		
xylene (mixture of isome	rs and ethylbenzer	ie)	
Route of exposure	Value	Value determination	Source
Drinking water	0.327 mg/l		
Marine water	0.327 mg/l		
Water (intermittent release)	0.327 mg/l		
Microorganisms in sewage treatment	6.58 mg/l		
Freshwater sediment	12.46 mg/kg of dry substance of sediment		
Sea sediments	12.46 mg/kg of dry substance of sediment		
Soil (agricultural)	2.31 mg/kg of dry substance of soil		



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zinc oxide

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

8.2. Exposure controls

Conditions of safe use of the registered product composition components specified in exposure scenarios to Safety Data Sheets of the components are given in Annex of the SDS, including the required additional measures restricting the exposure – see the exposure scenarios for the intended uses of the product.

General safety and hygienic measures. When working, do not eat, drink, smoke. Before the break and after the work, hands should be washed with soap and hot water, treated with barrier cream. Overall and local ventilation, effective extraction.

Eye/face protection

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

Skin protection

Skin protection: Protective clothes with antistatic finish, protective shoes; treat unprotected skin with barrier cream. Hand protection: Chemical resistant protective gloves (EN 374-1:2003). Suitable material – nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0.7 mm) and others, time of penetration corresponding to > 480 minutes. The time of penetration specified by the manufacturer should be followed and the glove replaced after expiration. If damaged, the gloves should be replaced immediately.

The selection of suitable protective gloves does not only depend on their material, but also on other qualitative features. Furthermore, since the mixture can be used for various purposes, mixed with other substances, the suitability of gloves for all purposes cannot be predetermined and must be verified in particular use.

Respiratory protection

Don't breathe vapours. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

Thermal hazard

Not available.

Environmental exposure controls

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

More information

In the Czech Republic: The monitoring procedure for the content of substances in workplace air and the specification of protective equipment is determined by the worker responsible for occupational safety and health protection of workers. Legal and natural persons doing business have the obligation to measure and control the values of concentrations of substances in the atmosphere of workplaces and to classify workplaces according to the categorization of work.

Exposure scenario is attached to the Safety Data Sheet.

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SECT	ON 9: Physical and c	hemical properties				
9.1.	Information on bas	ic physical and chemical pro	operties			
	Physical state		liquid			
	Colour		black			
	Odour		typical aromatic			
	Melting point/freezing	j point	data not availab	le		
		boiling point and boiling range	data not availab	le		
	Flammability		Flammable liquid	d and vapour.		
	Lower and upper exp	losion limit	data not availab	le		
	Flash point		>25 °C (EN ISO	>25 °C (EN ISO 2719)		
	Auto-ignition tempera	ature	data not availab	le		
	Decomposition tempe	erature	data not availab	le		
	рН		non-soluble (in v	water)		
	Kinematic viscosity		>20.5 mm²/s at	: 40 °C		
	Solubility in water		not available			
	Solubility in fats		not available			
	Partition coefficient n	-octanol/water (log value)	data not availab	le		
	Vapour pressure		data not availab	le		
	Density and/or relative	e density				
	Density		1.32 g/cm ³ at 2	3 °C (EN ISO 2811-1)		
	Relative vapour dens	-	data not availab			
	Particle characteristic	S	data not availab	le		
	Form		liquid: viscous			
9.2.	Other information					
	Evaporation rate			not available		
	Oxidising properties			no oxidizing properties.		
	Explosive properties			up with air can be explosive.		
	Ignition temperature		>400 °C (EN IS	0 14522)		
	Content of organic so	. ,	0.37 kg/kg			
	Total organic carbon	. ,	0.32 kg/kg			
	Solid content (dry ma	atter)	44 % volume			
	VOC limit value		cat. A (i) SB: 50	10 g/l		
	Max. VOC content in condition	the product in its ready to use	499 g/l			

SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

No known dangerous reactions when used under standard conditions. Flammable liquid. Vapours may form explosive mixture with air. Vapours are heavier than air, accumulate near the ground and below ground, and the fire can spread over long distances.

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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

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	Value	Exposure time	Species	Sex	
Oral	LD50	5135 mg/kg		Rat		
hydrocarbons, C9 -	C12, n-alkanes,	isoalkanes, cyclics,	aromatics (2-25%)			
Route of exposure	Parameter	Value	Exposure time	Species	Sex	
Oral	LC50	>5000 mg/kg		Rat (Rattus norvegicus)		
Inhalation	LC50	>13.1 mg/l	4 hours	Rat (Rattus norvegicus)		
Dermal	LD 5 0	3160 mg/kg		Rabbit		
hydrocarbons, C9, a	aromatics					
Route of exposure	Parameter	Value	Exposure time	Species	Sex	
Oral	LD50	3492 mg/kg		Rat (Rattus norvegicus)		
Dermal	LD 50	3160 mg/kg		Rabbit		
Inhalation	LC₅o	6193 mg/m ³	4 hours	Rat (Rattus norvegicus)		
trizinc bis(orthopho	osphate)					
Route of exposure	Parameter	Value	Exposure time	Species	Sex	
Oral	LD50	5000 mg/kg		Rat (Rattus norvegicus)		



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xylene (mixture of isomers and ethylbenzene)						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	
Oral	LD₅o	3523 mg/kg bw		Rat (Rattus norvegicus)	М	
Inhalation	LC50	6350-6700 ppm	4 hours	Rat (Rattus norvegicus)		
Dermal	LD 50	>5000 mg/kg		Rabbit		
Oral	LD50	>4000 mg/kg bw		Rat (Rattus norvegicus)	F	
	ATE	1100 mg/kg		Rabbit		

Skin corrosion/irritation

Causes skin irritation. Data for the components of the mixture are not available.

Serious eye damage/irritation

Causes serious eye irritation. Data for the components of the mixture are not available.

Respiratory or skin sensitisation

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.

Germ cell mutagenicity

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.

Carcinogenicity

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.

Reproductive toxicity

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.

Toxicity for specific target organ - single exposure

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

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.

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11.2. Information on 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.

SECTION 12: Ecological information

12.1. Toxicity

The complete mixture has not been tested. The classification is based on the calculation method. Information on toxic effects are based on the effects of the substances, the data are taken from the safety data sheets of raw materials. The mixture is classified as dangerous for the environment. Toxic to aquatic life with long lasting effects. The mixture is a source of volatile organic emissions. Avoid release to the environment.

Acute toxicity

(2-methoxymethylethoxy)propanol						
Parameter	Value	Exposure time	Species	Environment		
LC50	>10000 mg/l	96 hours	Fish (Oncorhynchus mykiss)			
EC₅o	1919 mg/l	48 hours	Daphnia (Daphnia magna)			

hydrocarbons,	hydrocarbons, C9 - C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)				
Parameter	Value	Exposure time	Species	Environment	
LC50	10-30 mg/l	96 hours	Fish (Oncorhynchus mykiss)		
EC50	12-22 mg/l	48 hours	Invertebrates		
EL 50	4.6-10 mg/l	72 hours	Algae (Selenastrum capricornutum)		
EL 50	43.98 mg/l	48 hours	Microorganisms (Photobacterium phosphoreum)		

hydrocarbons, C9, aromatics					
Parameter	Value	Exposure time	Species	Environment	
LC50	9.2 mg/l	96 hours	Fish (Oncorhynchus mykiss)		
EC₅o	3.2 mg/l	48 hours	Daphnia (Daphnia magna)		
EC₅o	2.9 mg/l	72 hours	Algae (Selenastrum capricornutum)		

trizinc bis(orthophosphate)				
Parameter	Value	Exposure time	Species	Environment
LC50	0.3-5.59 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
LC50	0.89-0.96 mg/l	48 hours	Crustaceans	
EC₅o	0.29-0.32 mg/l	72 hours	Algae and other aquatic plants	

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xylene (mixtu	re of isomers and ethy	vlbenzene)		
Parameter	Value	Exposure time	Species	Environment
LC50	2.6 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
IC50	1 mg/l	24 hours	Daphnia (Daphnia magna)	
EC50	4.36 mg/l	73 hours	Algae (Pseudokirchneriella subcapitata)	
zinc oxide				
Parameter	Value	Exposure time	Species	Environment
EC50	0.17 mg/kg	72 hours	Algae (Selenastrum capricornutum)	

Chronic toxicity

xylene (mixture of isomers and ethylbenzene) Parameter Value Exposure time Species Environment NOEC >1.3 mg/l 56 days Fish (Oncorhynchus mykiss) NOEC 0.96-1.17 mg/l 7 days Invertebrates (Ceriodaphnia dubia)

12.2. Persistence and degradability

Data for mixture not available.

12.3. Bioaccumulative potential

Data for mixture not available.

xylene (mixture	xylene (mixture of isomers and ethylbenzene)					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	
BCF	6-23					
Log Pow	3.15-3.2					

12.4. Mobility in soil

The mixture is a liquid insoluble in water, in case of leakage into environment, it may be dispersed over large distances and penetrate into underground water. It contains components with the potential of mobility in soil. When released into the soil may occur due to contamination of groundwater.

xylene (mixture of isomers and ethylbenzene)					
Parameter	Value	Environment	Temperature		
Кос	48-540				

12.5. Results of PBT and vPvB assessment

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	according to Commission Re	gulation (EU) 2020/878 a	s amended	
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Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

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.

12.7. Other adverse effects

Volatile organic substances contained in the mixture have the potential to damage ozone layer. Possible impacts on the waste water treatment plant: the concentration of this substance in the waste water to be treated must be in a controlled mode in accordance with the sewage regulations. The mixture may contaminate soil and water and may damage the fauna and flora. According to the Water Management Act, Act No. 254/2001 Coll., The product is considered a dangerous substance and a dangerous substance according to Annex No. 1 of the Water Management Act. Prevent substance from entering groundwater, soil and sewage system.

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. Proceed in accordance with valid regulations on waste disposal. 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) Flammable liquids
 - 3
- 14.4. Packing group III
- 14.5. Environmental hazards

The product is dangerous for the environment.

14.6. Special precautions for user Reference in the Sections 4 to 8. The product is transported in ordinary and covered means of transport, protected against the weather, shocks and falls. 14.7. Maritime transport in bulk according to IMO instruments

Not classified.

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Additional in	formation					
Hazard id	dentification No.		30			
UN numb	ber		1263	3		
Classification code			F1			
Safety signs		3+haza	rdous for the en	vironment		
Tunnel re	estriction code		(D/E)			
Air transpor	t - ICAO/IATA					
Packagin	Packaging instructions passenger		355			
	ckaging instructi	ons	366			
Marine trans	sport - IMDG					
	ergency plan)		F-E, S-I	E		
MFAG			310			

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).

15.2. Chemical safety assessment

Chemical safety assessment was carried out on substances xylene, hydrocarbons, C9, aromatics, hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics, (2-methoxymethylethoxy)propanol. The respective exposure scenarios are incorporated in Annex of this Safety Data Sheet.

SECTION 16: Other information

A list of standard	d risk phrases used in the safety data sheet
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to the central nervous system through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.

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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.
H312+H332	Harmful in contact with skin or if inhaled.
	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.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents/container to in accordance with local regulations by handing over to a person authorized to dispose of waste or a site designated by the town.
	onal standard phrases used in the safety data sheet
EUH066	Repeated exposure may cause skin dryness or cracking.
	ialions and acronyms used in the safety data sheet
ADR	iations and acronyms used in the safety data sheet European agreement concerning the international carriage of dangerous goods by road
-	European agreement concerning the international carriage of dangerous goods by
ADR	European agreement concerning the international carriage of dangerous goods by road
ADR BCF	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor
ADR BCF CAS	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of
ADR BCF CAS CLP	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
ADR BCF CAS CLP EC	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures Identification code for each substance listed in EINECS
ADR BCF CAS CLP EC EC50	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures Identification code for each substance listed in EINECS Concentration of a substance when it is affected 50% of the population
ADR BCF CAS CLP EC EC₅₀ EINECS EL₅₀ EmS	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures Identification code for each substance listed in EINECS Concentration of a substance when it is affected 50% of the population European Inventory of Existing Commercial Chemical Substances
ADR BCF CAS CLP EC EC₅₀ EINECS EL₅₀ EMS EU	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures Identification code for each substance listed in EINECS Concentration of a substance when it is affected 50% of the population European Inventory of Existing Commercial Chemical Substances Effective Loading for 50% of the tested organisms Emergency plan European Union
ADR BCF CAS CLP EC EC₅₀ EINECS EL₅₀ EMS EU EU EuPCS	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures Identification code for each substance listed in EINECS Concentration of a substance when it is affected 50% of the population European Inventory of Existing Commercial Chemical Substances Effective Loading for 50% of the tested organisms Emergency plan European Union European Product Categorisation System
ADR BCF CAS CLP EC EC₅₀ EINECS EL₅₀ EMS EU EU EUPCS IATA	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures Identification code for each substance listed in EINECS Concentration of a substance when it is affected 50% of the population European Inventory of Existing Commercial Chemical Substances Effective Loading for 50% of the tested organisms Emergency plan European Union European Product Categorisation System International Air Transport Association
ADR BCF CAS CLP EC EC₅₀ EINECS EL₅₀ EMS EU EU EUPCS IATA IBC	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures Identification code for each substance listed in EINECS Concentration of a substance when it is affected 50% of the population European Inventory of Existing Commercial Chemical Substances Effective Loading for 50% of the tested organisms Emergency plan European Union European Product Categorisation System International Air Transport Association International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ADR BCF CAS CLP EC EC\$0 EINECS EL\$0 EMS EU EUPCS IATA IBC IC\$0	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures Identification code for each substance listed in EINECS Concentration of a substance when it is affected 50% of the population European Inventory of Existing Commercial Chemical Substances Effective Loading for 50% of the tested organisms Emergency plan European Union European Product Categorisation System International Air Transport Association International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals Concentration causing 50% blockade
ADR BCF CAS CLP EC EC₅₀ EINECS EL₅₀ EMS EU EuPCS IATA IBC IC₅₀ ICAO	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures Identification code for each substance listed in EINECS Concentration of a substance when it is affected 50% of the population European Inventory of Existing Commercial Chemical Substances Effective Loading for 50% of the tested organisms Emergency plan European Union European Product Categorisation System International Air Transport Association International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals Concentration causing 50% blockade International Civil Aviation Organization
ADR BCF CAS CLP EC ECs0 EINECS ELs0 EmS EU EuPCS IATA IBC IC50 ICAO IMDG	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures Identification code for each substance listed in EINECS Concentration of a substance when it is affected 50% of the population European Inventory of Existing Commercial Chemical Substances Effective Loading for 50% of the tested organisms Emergency plan European Union European Product Categorisation System International Air Transport Association International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals Concentration causing 50% blockade International Civil Aviation Organization International Maritime Dangerous Goods
ADR BCF CAS CLP EC EC\$0 EINECS EL\$0 EmS EU EUPCS IATA IBC IC\$0 ICAO IMDG IMO	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures Identification code for each substance listed in EINECS Concentration of a substance when it is affected 50% of the population European Inventory of Existing Commercial Chemical Substances Effective Loading for 50% of the tested organisms Emergency plan European Union European Product Categorisation System International Air Transport Association International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals Concentration causing 50% blockade International Civil Aviation Organization International Maritime Dangerous Goods International Maritime Organization
ADR BCF CAS CLP EC EC₅₀ EINECS EL₅₀ EMS EU EuPCS IATA IBC IC₅₀ ICAO IMDG IMO INCI	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures Identification code for each substance listed in EINECS Concentration of a substance when it is affected 50% of the population European Inventory of Existing Commercial Chemical Substances Effective Loading for 50% of the tested organisms Emergency plan European Union European Product Categorisation System International Air Transport Association International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals Concentration causing 50% blockade International Civil Aviation Organization International Maritime Dangerous Goods International Maritime Organization International Nomenclature of Cosmetic Ingredients
ADR BCF CAS CLP EC EC₅₀ EINECS EL₅₀ EMS EU EuPCS IATA IBC IC₅₀ ICAO IMDG IMO INCI ISO	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures Identification code for each substance listed in EINECS Concentration of a substance when it is affected 50% of the population European Inventory of Existing Commercial Chemical Substances Effective Loading for 50% of the tested organisms Emergency plan European Union European Product Categorisation System International Air Transport Association International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals Concentration causing 50% blockade International Civil Aviation Organization International Maritime Dangerous Goods International Maritime Organization International Nomenclature of Cosmetic Ingredients International Organization for Standardization
ADR BCF CAS CLP EC EC₅₀ EINECS EL₅₀ EmS EU EuPCS IATA IBC IC₅₀ ICAO IMDG IMO INCI ISO IUPAC	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures Identification code for each substance listed in EINECS Concentration of a substance when it is affected 50% of the population European Inventory of Existing Commercial Chemical Substances Effective Loading for 50% of the tested organisms Emergency plan European Union European Product Categorisation System International Air Transport Association International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals Concentration organization International Civil Aviation Organization International Maritime Dangerous Goods International Maritime Organization International Nomenclature of Cosmetic Ingredients International Organization for Standardization International Organization for Standardization International Union of Pure and Applied Chemistry
ADR BCF CAS CLP EC EC₅₀ EINECS EL₅₀ EmS EU EuPCS IATA IBC IC₅₀ ICAO IMDG IMO INCI ISO	European agreement concerning the international carriage of dangerous goods by road Bioconcentration Factor Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures Identification code for each substance listed in EINECS Concentration of a substance when it is affected 50% of the population European Inventory of Existing Commercial Chemical Substances Effective Loading for 50% of the tested organisms Emergency plan European Union European Product Categorisation System International Air Transport Association International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals Concentration causing 50% blockade International Civil Aviation Organization International Maritime Dangerous Goods International Maritime Organization International Nomenclature of Cosmetic Ingredients International Organization for Standardization

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log Kow	0	octanol-water par	tition coefficient	
NOEC	N	lo observed effec	t concentration	
OEL	0	ccupational Expo	osure Limits	
PBT	P	ersistent, Bioacc	umulative and Toxic	
ppm	P	arts per million		
REACH	R	egistration, Eval	uation, Authorisation and	Restriction of Chemicals
RID	Α	greement on the	transport of dangerous g	joods by rail
UN		our-figure identif lodel Regulations		ostance or article taken from the UN
UVCB		ubstances of unliological materia		ition, complex reaction products or
VOC	V	olatile organic co	ompounds	
vPvB	V	ery Persistent ar	d very Bioaccumulative	
Acute Tox.	A	cute toxicity		
Aquatic Acute	Н	lazardous to the	aquatic environment	
Aquatic Chronic	Н	lazardous to the	aquatic environment (chr	onic)
Asp. Tox.	A	spiration hazard		
Eye Irrit.	E	ye irritation		
Flam. Liq.	F	lammable liquid		
Flam. Sol.	F	lammable solid		
Skin Irrit.	S	kin irritation		
STOT RE	S	pecific target or	an toxicity - repeated ex	posure
STOT SE	S	pecific target or	jan toxicity - single expos	sure
Water-react.	S	ubstance or mixt	cure which in contact with	water emits flammable gas
Training guideline	es			

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

Commission Regulation (EU) 2020/878 of 18 June 2020. 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 01 December 2021. Changes were made in sections 1, 2, 11, 15 and 16.

More information

Reference to Section 3.2, Substance Note T: The substance incorporated in the compound solution has no physical hazard properties.

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.

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Annex to the Product Safety Data Sheet - EXPOSURE SCENARIO

1. Industrial use

Application sector	: SU 3
Chemical product category	: PC9a
Partial processes covered by exposure	scenario: PROC1, PROC2, PROC 3, PROC4, PROC5, PROC 7, PROC8a, PROC8b,
	PROC10, PROC13, PROC15
Environmental release	: ERC4

Basic conditions to control the hazard for workers:

Duration of work activities	: Covers exposure up to 8 h/d (unless otherwise specified)
Concentration	: Work with standard coating composition or coating composition thinned by solvents containing the same volatile components as the coating composition is anticipated.
Temperature	: Work at temperature up to 20 °C higher than site temperature is anticipated except for the coating composition's drying and hardening processes at increased temperature.
General risk management measures	: Wear protective working clothes. Wear protective gloves and eye protection if in danger of contact with the coating composition. Basic training required. Abide by general principles of safe and hygienic work with chemical substances.
Site where the activities are performed	: Indoor use is anticipated.

Additional requirements to control the hazard for workers carrying out partial work activities:

Partial work activities with the product (Partial contributing scenarios)	Process category	Required additional measures to control worker exposure
Pumping from/to containers and devices within a closed system with no possibility to release emission	PROC 1 Use within closed production process	Does not require further risk control measures.
Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure	PROC 8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure	PROC 8b Transfer of the product (charging / discharging) to/from vessels/large containers at dedicated facilities	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Mixing, blending, thinning of coating composition in open devices with possible exposure to volatile components of the coating composition	PROC5 Mixing or blending in batch processes at mixture manufacturing (excl. charging and discharging of vessels).	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Application by spraying.	PROC 7 Industrial spraying.	Robotic spraying in closed chambers or closed cabs with laminar extraction. In course of spraying, enter the chambers only with self-contained respirator.
		Manual spraying in spraying chambers with laminar flow of extracted air directed from the worker or in intensively ventilated spaces (5-10 air exchanges per hour) with respiratory protection (half-face or full-face respirator) provided with type A/P2 filter.
Manual coating composition application by	PROC 10 Roller, palette knife or	Local air extraction at potential emission release
roller, brush or palette knife.	brush application	or good ventilation (3-5 air exchanges per hour).
Dipping or pouring application of coating	PROC 13 Treatment of articles by	Local air extraction at potential emission release
composition.	dipping and pouring	or good ventilation (3-5 air exchanges per hour).
Free drying of coating composition film at standard or slightly increased ambient temperature (by max. 20 °C)	PROC 4 Use within batch or other process where opportunity for exposure arises	Carry out in well ventilated spaces (3-5 air exchanges per hour).
Continuous drying and hardening processes of the coating composition film at increased temperature in drying tunnels equipped with vapour extraction	PROC 2 Use within continuous chemical production process with occasional controlled exposure (e.g. at sampling).	Does not require further risk control measures.
Batch drying and hardening processes of the coating composition film at increased temperature in extracted chambers	PROC 3 Use within closed batch process of mixture manufacturing.	Does not require further risk control measures.
Machine cleaning and washing of closed tanks, containers and devices equipped with vapour extraction	PROC 3 Use within closed batch process of mixture manufacturing	Does not require further risk control measures.
Manual cleaning of small containers, application devices and tools	PROC 10 Roller, palette knife or brush application (by a tool held in hand) PROC8a Transfer of the product (charging / discharging) to/from	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
	vessels/large containers at non dedicated facilities	

Laboratory checks on the coating composition	PROC 15 Use as laboratory reagent (laboratory work with the product)	Good ventilation (3 – 5 air exchanges per hour).
Activities involving product waste and waste contaminated by the product		If in risk of contact with waste, wear protective gloves. Store the waste in closable containers stored in well ventilated storages or outdoor.

Additional requirements to control environmental hazards

Air emission control	When spraying, remove fly coating mist from the air extracted from the work site. If the limits for solvent consumption defined in Ordinance no. 415/2012 Coll. are exceeded, use solvent recuperation from waste air or remove the solvents by incineration or other processes guaranteeing observation of emission parameters specified in air protection regulations.
Water emission control	Store the coating and waste contaminated by coat in buildings structurally protected from leakage release and emergency release to surface and ground water. Treat water contaminated by coat compounds and remove solid impurities and organic compounds by sedimentation, filtration, biological treatment processes or special processes developed for treatment of water contaminated by coating compositions before discharging to surface water. When discharging the treated waste water, observe the contamination parameters specified for the involved facility by water management authority.
Disposal of waste	Dispose of coat waste and materials contaminated by coat and its compounds in cooperation with authorised persons as of hazardous waste. Dispose of solvent waste from tools and device cleaning as of hazardous waste. Prevent release or discharge of any liquid waste to surface and ground water unless it is treated and coating composition compounds are removed.

2. Professional use

Application sector	: SU 22
Chemical product category	: PC9a
Partial processes covered by e	posure scenario: PROC 3, PROC4, PROC5, PROC 7, PROC8a, PROC8b, PROC10, PROC11,
	PROC13, PROC15, PROC19
Environmental release	: ERC 8a, ERC 8d

Basic conditions to control the hazard for workers:

Duration of work activities	: Covers exposure up to 8 h/d (unless otherwise specified)
Concentration	: Work with standard coating composition or coating composition thinned by solvents containing the same volatile components as the coating composition is anticipated.
Temperature	: Work at temperature up to 20 °C higher than site temperature is anticipated except for the coating composition's drying and hardening processes at increased temperature.
General risk management measures	: Wear protective working clothes. Wear protective gloves and eye protection if in danger of contact with the coating composition. Basic training required. Abide by general principles of safe and hygienic work with chemical substances.
Site where the activities are performed	: Indoor and outdoor use is anticipated.

Additional requirements to control the hazard for workers carrying out partial work activities:

Partial work activities with the product (Partial contributing scenarios)	Process category	Required additional measures to control worker exposure
Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure	PROC 8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities PROC 8b Transfer of the product (charging / discharging) to/from vessels/large containers at dedicated facilities	Indoor: local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). Outdoor: secure catch dripping paint Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: does not require further risk control
Mixing, blending, thinning of coating composition in open devices with possible exposure to volatile components of the coating composition	PROC5 Mixing or blending in batch processes at mixture manufacturing (excl. charging and discharging of vessels).	measures Indoor: local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). Outdoor: working process a maximum of 4h per day does not require further risk control measures or use respiratory protection with filter type A.
Application by spraying.	PROC 11 Non industrial spraying.	Indoor: do spraying in spraying chambers with laminar flow of extracted air directed from the worker or in intensively ventilated spaces (5-10 air exchanges per hour) with respiratory

		protection (half-face or full-face respirator) provided with type A/P2 filter.
		Outdoor: use respiratory protection with filter type A/P2.
Manual coating composition application by roller, brush or palette knife.	PROC 10 Roller, palette knife or brush application	Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: does not require further risk control measures
Dipping or pouring application of coating composition.	PROC 13 Treatment of articles by dipping and pouring	Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour).
		Outdoor: use respiratory protection with filter type A.
Free drying of coating composition film at standard or slightly increased ambient temperature (by max. 20 °C)	PROC 4 Use within batch or other process where opportunity for exposure arises	Indoor: carry out in well ventilated spaces (5 10 air exchanges per hour). Outdoor: does not require further risk control measures
Batch drying and hardening processes of the coating composition film at increased temperature in extracted chambers	PROC 3 Use within closed batch process of mixture manufacturing.	Does not require further risk control measures.
Machine cleaning and washing of closed tanks, containers and devices equipped with vapour extraction	PROC 3 Use within closed batch process of mixture manufacturing	Does not require further risk control measures.
Manual cleaning of small containers, application devices and tools	PROC 10 Roller, palette knife or brush application (by a tool held in hand)	Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: does not require further risk control measures
Laboratory checks on the coating composition	PROC 15 Use as laboratory reagent (laboratory work with the product)	Good ventilation (3 – 5 air exchanges per hour).
Manual activities involving hand contact	PROC19 Hand-mixing with intimate contact and only PPE available	Indoor. Use protective gloves, local air extraction at potential emission release or good ventilation Outdoor: use protective gloves
Activities involving product waste and waste contaminated by the product		If in risk of contact with waste, wear protective gloves. Store the waste in closable containers stored in well ventilated storages or outdoor.

Additional requirements to control environmental hazards

Air emission control	Does not require special risk control measures
Water emission control	Store the paints and waste contaminated by paints in buildings structurally protected from leakage release and emergency release to surface and ground water. Clean up waste water contaminated by paints in the Municipal wastewater treatment plants before discharging to surface water or capture or dispose them as hazardous waste in cooperation with the authorized person. Overspray and drips paint as possible to capture and dispose as hazardous waste.
Disposal of waste	Prevent leakage or discharge of any liquid waste into surface and groundwater unless it is cleaned up from the paint compounds. Dispose of paint waste and materials contaminated by paints and its compounds in cooperation with authorised persons as of hazardous waste. Dispose of solvent waste from tools and device cleaning as of hazardous waste.