according to UK REACH Regulation

Protect Plus Color						
Revision date: 09.03.2022	Product code:		Page 1 of 15			
SECTION 1: Identification of the substance/mixture and of the company/undertaking						
<u>1.1. Product identifier</u> Protect Plus Color						
UFI:	FA20-U0E0-600V-PJG9					
1.2. Relevant identified uses of the	substance or mixture and uses advised agains	<u>t</u>				
Use of the substance/mixture Hydrophobing agent						
Uses advised against Any non-intended use.						
1.3. Details of the supplier of the sa	fety data sheet					
Manufacturer Company name: Street: Place: Talanhana:	Schaich Chemie und Bautenschutz GmbH Ficht 8 D-94107 Untergriesbach	Talafayı : 40/0\0502.02.02.02.00				
Telephone: e-mail: Internet: Responsible Department:	+49(0)8593 93 96 207 info@schaich-chemie.de www.schaich-chemie.de +49 (0)8593 9396207 (8:00-16:00)	Telefax:+49(0)8593 93 96 206				
Supplier Company name: Street: Place:	Stein & Co. GmbH Wirtschaftspark Straße 3/9 A-4482 Ennsdorf					
1.4. Emergency telephone number:	+49 (0)8593 9396207 (8:00-13:00)					
SECTION 2: Hazards identification	on					

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 3; H226 Asp. Tox. 1; H304

Full text of hazard statements: see SECTION 16.

Danger

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics hydrocarbons, C11-C12, isoalkanes, <2% aromatics Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

Signal word:

Pictograms:



Hazard statements

H226 H304 Flammable liquid and vapour. May be fatal if swallowed and enters airways.

according to UK REACH Regulation

Protect Plus Color					
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Precautionary statemer	nts				
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.				
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.				
P405	Store locked up.				
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.				

Special labelling of certain mixtures

EUH066

Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture. For information or further instructions, see also section 11 or 12.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Fluorocarbon resin dissolved in solvent

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Re			
-	Hydrocarbons, C10-C13, r	85 - < 90 %		
	918-481-9	649-327-00-6	01-2119457273-39	
	Asp. Tox. 1; H304 EUH06	6		
	hydrocarbons, C11-C12, is	soalkanes, <2% aromatics		1 - < 3 %
	918-167-1		01-2119472146-39	
	Flam. Liq. 3, Asp. Tox. 1; I			
246538-78-3	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics			1 - < 3 %
	920-901-0		01-2119456810-40	
	Asp. Tox. 1; H304 EUH06	6	•	
34590-94-8	(2-methoxymethylethoxy)p	ropanol		1 - < 3 %
	252-104-2		01-2119450011-60	
-	Alkylsilane			1 - < 3 %
	-			
	Skin Irrit. 2; H315			
108-10-1	4-methylpentan-2-one; isobutyl methyl ketone			0.1 - < 0.2 %
	203-550-1	606-004-00-4		
	Flam. Liq. 2, Carc. 2, Acute Tox. 4, Eye Irrit. 2, STOT SE 3; H225 H351 H332 H319 H336 EUH066			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No Chemical name		Quantity
	Specific Conc. Limits, M-factors and ATE		
-	918-481-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	85 - < 90 %

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Protect Plus Color

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	inhalation: LC5	0 = [>5] mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg			
	918-167-1	hydrocarbons, C11-C12, isoalkanes, <2% aromatics	1 - < 3 %		
	dermal: LD50 =	= > 2000 mg/kg; oral: LD50 = > 5000 mg/kg			
246538-78-3	920-901-0	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	1 - < 3 %		
	dermal: LD50 =	D50 = > 5000 mg/kg; oral: LD50 = > 15000 mg/kg			
34590-94-8	252-104-2	(2-methoxymethylethoxy)propanol	1 - < 3 %		
	dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg				
108-10-1	203-550-1	4-methylpentan-2-one; isobutyl methyl ketone	0.1 - < 0.2 %		
	inhalation: ATE	11 mg/kg (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = 2080 mg/kg			

Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.

After inhalation

Remove person to fresh air and keep comfortable for breathing.

In the event of irregular breathing or respiratory arrest, seek medical help immediately and first aid measures initiate.

No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

After contact with skin

Take off immediately all contaminated clothing. Wash with plenty of water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. In all cases of doubt, or when symptoms persist, seek medical advice.

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

Aspiration hazard: Swallowing may damage the lungs. (Risk of aspiration) Death following aspiration.

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

Treat symptomatically.

Subsequent observance for pneumonia and lung oedema.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Dry extinguishing powder. alcohol resistant foam. In case of major fire and large quantities: Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO2). Fluorhydric acid. silicon dioxide

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5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Ventilate affected area.

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

Other information

Ventilate affected area.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations. Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

Advice on general occupational hygiene

The usual precautions for handling chemicals should be considered.

Keep away from food, drink and animal feedingstuffs.

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work. Protect skin by using skin protective cream. Take off contaminated clothing.

Further information on handling

General protection and hygiene measures: See section 8.

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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight.

Ensure adequate ventilation of the storage area.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Hints on joint storage

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Protect against: UV-radiation/sunlight. heat. Humidity frost. storage temperature: 15-25°C

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
34590-94-8	(2-methoxymethylethoxy) propanol	50	308		TWA (8 h)	WEL
108-10-1	4-Methylpentan-2-one	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL
107-87-9	Pentan-2-one	200	716		TWA (8 h)	WEL
		250	895		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
108-10-1	4-methylpentan-2-one	4-methylpentan-2-one	20 µmol/L	urine	Post shift

DNEL/DMEL values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
34590-94-8	(2-methoxymethylethoxy)propanol					
Consumer DN	EL, long-term	dermal	systemic	121 mg/kg bw/day		
Consumer DN	EL, long-term	oral	systemic	36 mg/kg bw/day		
Consumer DN	EL, long-term	inhalation	systemic	37,2 mg/m³		
Worker DNEL,	long-term	dermal	systemic	283 mg/kg bw/day		
Worker DNEL,	long-term	inhalation	systemic	308 mg/m ³		
107-87-9	Pentan-2-one					
Worker DNEL,	long-term	inhalation	systemic	209,38 mg/m³		
Worker DNEL, acute		inhalation	systemic	4783,5 mg/m³		
Worker DNEL, long-term		dermal	systemic	19,89 mg/kg bw/day		

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Consumer DNEL, long-term	inhalation	systemic	62,5 mg/m³		
Consumer DNEL, acute	inhalation	systemic	4283,73 mg/m ³		
Consumer DNEL, long-term	dermal	systemic	17,97 mg/kg bw/day		
Consumer DNEL, long-term	oral	systemic	17,97 mg/kg bw/day		

PNEC values

CAS No	Substance	
Environment	al compartment	Value
34590-94-8	(2-methoxymethylethoxy)propanol	
Freshwater		19 mg/l
Marine water	r	1,9 mg/l
Freshwater s	ediment	70,2 mg/kg
Marine sedin	nent	7,02 mg/kg
Micro-organisms in sewage treatment plants (STP)		4168 mg/l
Soil		2,74 mg/kg
107-87-9	Pentan-2-one	
Freshwater		0,11 mg/l
Freshwater (intermittent releases)	1,1 mg/l
Marine water	r	0,011 mg/l
Freshwater s	ediment	0,717 mg/kg
Marine sediment		0,072 mg/kg
Micro-organi	sms in sewage treatment plants (STP)	0,25 mg/l
Soil		0,079 mg/kg

8.2. Exposure controls









Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). BS/EN 166

Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves. (BS EN 374) Suitable material: Butyl rubber.

Thickness of glove material: 0,5 mm

Breakthrough time >= 480 min. Penetration time (maximum wearing period): ~ 120 min. (estimated) For special purposes, it is recommended to check the resistance to chemicals of the protective gloves

mentioned above together with the supplier of these gloves.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN ISO 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

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Skin protection

Wear suitable protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Generation/formation of aerosols

Exceeding exposure limit values

Insufficient ventilation

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type: A/P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid.	
Colour:	clear, colorless	
Odour:	characteristic	
Changes in the physical state		
Melting point/freezing point:		not applicable
Boiling point or initial boiling point and boiling range:	I	not determined
Flash point:		not determined
Explosive properties In use, may form flammable/explo	sive vapour-air mixture.	
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		7
Viscosity / dynamic: (at 40 °C)		not determined
Viscosity / kinematic: (at 20 °C)		not determined
Water solubility:		not determined
Solubility in other solvents not determined		
Vapour pressure: (at 20 °C)		not determined
Density:		not determined
Relative vapour density:		not determined

9.2. Other information

Information with regard to physical hazard classes

according to UK REACH Regulation

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Oxidizing properties none.		
Other safety characteristics		
Solvent separation test:	not determined	
Solvent content:	not determined	
Solid content:	not determined	
Evaporation rate:	not determined	
Further Information		

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal storage and handling conditions.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions. Refer to chapter 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat. Moisture. In use may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Strong acid. strong alkalis.

10.6. Hazardous decomposition products

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO2). Fluorhydric acid. silicon dioxide

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicocinetics, metabolism and distribution

No data available.

Acute toxicity

Based on available data, the classification criteria are not met. The product has not been tested.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
-	Hydrocarbons, C10-C13,	n-alkanes, is	oalkanes, c	yclics, < 2% aromatics		
	oral	LD50 mg/kg	>5000	Rat	ECHA dossier	read-across
	dermal	LD50 mg/kg	>5000	Rabbit	ECHA dossier	read-across
	inhalation vapour	LC50	[>5] mg/l	8h, Rat	ECHA dossier	read-across
	hydrocarbons, C11-C12,	isoalkanes, <	2% aromati	cs		-
	oral	LD50 mg/kg	> 5000	Rat	ECHA dossier	read-across
	dermal	LD50 mg/kg	> 2000	Rat	ECHA dossier	read-across

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246538-78-3	Hydrocarbons, C11-C13,	lydrocarbons, C11-C13, isoalkanes, <2% aromatics				
	oral	LD50 mg/kg	> 15000	Rat	Study report (1977)	OECD Guideline 423
	dermal	LD50 mg/kg	> 5000	Rabbit	Study report (1993)	OECD Guideline 402
34590-94-8	(2-methoxymethylethoxy))propanol				
	oral	LD50 mg/kg	>5000	Rat	ECHA dossier	OECD Guideline 401
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA dossier	OECD Guideline 402
108-10-1	4-methylpentan-2-one; is	obutyl methy	l ketone			
	oral	LD50 mg/kg	2080	Rat	ECHA Dossier	
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier	
	inhalation vapour	ATE 11 mg	/kg			

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (EC No. 918-481-9) In vitro mutagenicity/genotoxicity: Method: OECD 471 (Ames test).; Results: negative.; Literature information: ECHA dossier; In vivo mutagenicity/genotoxicity: Method: OECD 471 (Ames test).; Results: negative.; Literature information: ECHA dossier; Carcinogenicity: Method: OECD 453.; Species: Mouse.; Exposure time : 2 years; Results: NOAEC >=2200 mg/m3 air; Literature information: ECHA dossier; Developmental toxicity/teratogenicity: Method: OECD 414.; Species: Rat.; Exposure time : 6-15 d. Results: NOAEL >=5220 mg/m3 air; Literature information: ECHA dossier

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics (EC No. 918-167-1):

Reproductive toxicity: Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test) Species: Rat; Exposure duration: 8 w. Results: NOAEC = 300 ppm. Literature information: ECHA dossier; Developmental toxicity/teratogenicity: Method: Guidelines for Reproduction Studies for Safety and Evaluation of Drugs for Human Use, Segment II (Teratology Study); Species: Rat; Results: NOAEC >= 300 ppm. Literature information: ECHA dossier

(2-methoxymethylethoxy)propanol:

OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) = negative. Literature information: ECHA dossier

STOT-single exposure

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

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (EC No. 918-481-9) Repeated dose toxicity (subacute, subchronic, chronic): Subchronic oral toxicity: Method: OECD 408: Species: Rat; Exposure time: 90 d. Results: NOAEL >=5000 mg/Kg bw/d; Literature information: ECHA dossier

(2-methoxymethylethoxy)propanol:

Subacute oral toxicity NOAEL = 1000 mg/kg (Rat.) Subchronic dermal toxicity NOEL = 2850 mg/kg (Rabbit.) Subchronic inhalative toxicity NOAEL = 200 ppm (Rat.) ; Literature information: ECHA dossier

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Aspiration hazard

May be fatal if swallowed and enters airways.

Specific effects in experiment on an animal

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

No data available.

Further information

Solvent:

Symptoms: Depression of the central nervous system. Liver and kidney damage. drowsiness. vomiting. Nausea. Dizziness. unconsciousness. Impaired consciousness. Intoxication. erythema (redness)

SECTION 12: Ecological information

12.1. Toxicity

The product has not been tested.

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
-	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics								
	Acute fish toxicity	LC50 1000 mg/l	LLO:	96 h	Oncorhynchus mykiss	ECHA dossier			
	Acute algae toxicity	ErC50 1000 mg/l	EL0:	72 h	Pseudokirchnerella subcapitata	ECHA dossier			
	Acute crustacea toxicity	EC50 1000 mg/l	EL0:	48 h	Daphnia magna	ECHA dossier			
	hydrocarbons, C11-C12, i	soalkanes, <	2% aromati	cs			_		
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Pseudokirchneriella subcapitata	ECHA dossier	OECD 201		
	Fish toxicity	NOEC mg/l	0,209	28 d	Oncorhynchus mykiss	ECHA dossier			
	Crustacea toxicity	NOEC	> 1 mg/l	21 d	Daphnia magna	ECHA dossier	OECD 211		
246538-78-3	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics								
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Pseudokirchneriella subcapitata	Study report; company data (1995)	OECD Guideline 201		
	Fish toxicity	NOEC mg/l	0,217	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a		
	Crustacea toxicity	NOEC	1 mg/l	21 d	Daphnia magna	Study report; company data (2001)	OECD Guideline 211		
34590-94-8	(2-methoxymethylethoxy)	propanol			•				
	Acute fish toxicity	LC50 mg/l	>1000	96 h	Poecilia reticulata	ECHA dossier	OECD Guideline 203		
	Acute algae toxicity	ErC50 mg/l	>1000	72 h	Pseudokirchnerella subcapitata (OECD 201)	ECHA dossier	OECD Guideline 201		
	Acute crustacea toxicity	EC50 mg/l	1919	48 h	Daphnia magna	ECHA dossier	OECD Guideline 202		
	Crustacea toxicity	NOEC mg/l	>= 0.5	22 d	Daphnia magna	ECHA dossier	OECD Guideline 211		
108-10-1	4-methylpentan-2-one; iso	butyl methyl	ketone						

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Acute fish toxicity	LC50	179 mg/l	96 h	Danio rerio	ECHA Dossier	
Acute algae toxicity	ErC50	400 mg/l	96 h	Selenastrum capricornutum		
Acute crustacea toxicity	EC50 mg/l	>200	48 h	Daphnia magna	ECHA Dossier	

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name					
	Method	Value	d	Source		
	Evaluation					
-	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2%	aromatics				
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	80%		ECHA dossier		
	Readily biodegradable (according to OECD criteria).					
	hydrocarbons, C11-C12, isoalkanes, <2% aromatics					
	OECD 301 F	41,7%	28	ECHA dossier		
	Not easily bio-degradable (according to OECD-criteria).					
34590-94-8	(2-methoxymethylethoxy)propanol					
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	>60%	28	ECHA dossier		
	Readily biodegradable (according to OECD criteria).					
108-10-1	4-methylpentan-2-one; isobutyl methyl ketone					
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	83%	28	ECHA Dossier		
	Readily biodegradable (according to OECD criteria).					

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
-	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	>4
246538-78-3	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	>4
34590-94-8	(2-methoxymethylethoxy)propanol	0,0043
108-10-1	4-methylpentan-2-one; isobutyl methyl ketone	1,31

BCF

CAS No	Chemical name	BCF	Species	Source
246538-78-3	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	144,3	calculated	Other company data (

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1

%.

12.7. Other adverse effects

No data available.

according to UK REACH Regulation

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Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

Land transport (ADR/RID)	
14.1. UN number or ID number:	UN 3295
14.2. UN proper shipping name:	HYDROCARBONS, LIQUID, N.O.S.
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
	3
Classification code:	F1
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 3295
14.2. UN proper shipping name:	HYDROCARBONS, LIQUID, N.O.S.
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3

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Classification code:	F1	
Limited quantity:	5 L	
Excepted quantity:	E1	
Marine transport (IMDG)		
14.1. UN number or ID number:	UN 3295	
14.2. UN proper shipping name:	HYDROCARBONS, LIQUID, N.O.S.	
14.3. Transport hazard class(es):	3	
14.4. Packing group:		
Hazard label:	3	
Marine pollutant:	NO	
Special Provisions:	223	
Limited quantity:	5 L	
Excepted quantity:	E1	
EmS:	F-E, S-D	
Air transport (ICAO-TI/IATA-DGR)	101 0005	
14.1. UN number or ID number:		
14.2. UN proper shipping name:	HYDROCARBONS, LIQUID, N.O.S.	
<u>14.3. Transport hazard class(es):</u> 14.4. Packing group:	3 III	
Hazard label:	3	
Special Provisions:	A3 A324	
Limited quantity Passenger: Passenger LQ:	10 L Y344	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:	355	
IATA-max. quantity - Passenger:	60 L	
IATA-packing instructions - Cargo:	366	
IATA-max. quantity - Cargo:	220 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.6. Special precautions for user See section 8.		
14.7. Maritime transport in bulk according t not relevant.	o IMO instruments	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regu	lations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII): Entry 3, Entry 40		
2010/75/EU (VOC):	96,304 %	
2004/42/EC (VOC):	No information available.	
Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS	

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Additional information						
Safety Data Sheet according to UK-REACH Regulation The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. UK REACH Appendix XVII, No (mixture): 3, 40						
National regulatory information						
Employment restrictions:	Observe restrictions to employment for juveniles accord work protection guideline' (94/33/EC).	ding to the 'juvenile				
Water hazard class (D):	2 - obviously hazardous to water					
15.2. Chemical safety assessment						
For the following substances of this mixture a chemical safety assessment has been carried out: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics hydrocarbons, C11-C12, isoalkanes, <2% aromatics						

(2-methoxymethylethoxy)propanol

SECTION 16: Other information

Changes

Rev. 1,0; Initial release: 08.09.2020 Rev. 2,0; Revision: 09.03.2022

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) CAS: Chemical Abstracts Service CLP: Classification, Labelling and Packaging of substances and mixtures **DNEL: Derived No Effect Level** d: day(s) EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European LIst of Notified Chemical Substances ECHA: European Chemicals Agency EWC: European Waste Catalogue IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) h: hour LOAEL: Lowest observed adverse effect level LOAEC: Lowest observed adverse effect concentration LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NOAEL: No observed adverse effect level NOAEC: No observed adverse effect concentration NLP: No-Longer Polymers N/A: not applicable OECD: Organisation for Economic Co-operation and Development PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) REACH: Registration, Evaluation, Authorisation of Chemicals SVHC: substance of very high concern

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UN: United Nations

VOC: Volatile Organic Compounds

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Asp. Tox. 1; H304	Calculation method

Relevant H and FUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

Classification according to GHS [UK CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)