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SEC	TION 1: Id	entification of t	he substance/mix	xture and of the c	company/undertaking			
1.1.	product id	lentifiers						
		(manufacturer/sup on of the substance	. ,	373XX0 PFH Covering L Art.no. 373000, 3 all colours, all gl	373900			
1.2.	Relevant i	dentified uses of	the substance or r	mixture and uses a	dvised against			
		<b>dentified uses:</b> Paint, Varnish).						
	Uses advised against: Do not use for products which come into contact with the food stuffs.							
1.3.	Details of	the supplier of th	ne safety data shee	t				
		supplier (manufacturer/importer/downstream user/distributor)						
	An der Ros	onig & Co.KG enhelle 5 ederdorfelden		Telephone: +49 Telefax: +49 610				
		onsible for infor	mation:					
	Laboratory Only availa	ble during office ho	ours:	Telephone: +49 Mon - Thurs 08:0 Friday 08:00 - 12	00 to 16:00			
	E-mail (con	npetent person)		SDB@heinrich-ł	koenig.de			
1.4.	-	<b>y telephone num</b> / telephone numbe		Emergency COI GmbH +49 (0)61	NTACT (24-Hour-Number 132-84463	):GBK		

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

	ind do nazar dodo dobor ding to rogulation (	
Aerosol 1 / H222	Aerosol	Extremely flammable aerosol.
Aerosol 1 / H229	Aerosol	Pressurised container: May burst if heated.
Eye Irrit. 2 / H319	Serious eye damage/eye irritati	on Causes serious eye irritation.
STOT SE 3 / H336	Specific target organ toxicity (si exposure)	ingle May cause drowsiness or dizziness.
Aquatic Chronic 3 / I	H412 Hazardous to the aquatic enviro	Domment Harmful to aquatic life with long lasting effects.
Labol olomonte		*

#### 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

き

Danger

## Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
Precautiona	ry statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing vapours.
P264	Wash hands thoroughly after handling

Wash hands thoroughly after handling. P264 P271 Use only outdoors or in a well-ventilated area.



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P273		Avoid release to the environment.		
P280		Wear protective gloves and eye/face protection.		
P304 + P34	0	IF INHALED: Remove person to fresh air and ke	ep comfortable for breathing	J.
P305 + P35		IF IN EYES: Rinse cautiously with water for sev to do. Continue rinsing.	eral minutes. Remove conta	ct lenses, if present and easy
P312		Call a POISON CENTER or doctor/physician if	you feel unwell.	
P337 + P31	3	If eye irritation persists: Get medical advice/atter	ntion.	
P405		Keep locked up.		
P410 + P41	2	Protect from sunlight. Do not expose to tempera	atures exceeding 50 °C/122 °	F.
P501.2		Dispose of contents/container via the national/lo	ocal hazardous waste disposa	al.
contains:				
		n-butyl acetate		
Suppleme	ntal Hazaro	d information (EU)		

EUH066

Repeated exposure may cause skin dryness or cracking.

#### 2.3. Other hazards

#### **SECTION 3: Composition / information on ingredients**

#### 3.2. Mixtures

Product description / chemical characterization

Description Aerosol

#### **Hazardous ingredients**

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No. CAS No.	REACH No. Chemical name	Wt %
INDEX No.	classification // Remark	
204-065-8	01-2119472128-37-xxxx	
115-10-6	dimethylether	25 < 50
603-019-00-8	Flam. Gas 1 H220 / compressed gas H280	
204-658-1	01-2119485493-29-xxxx	
123-86-4	n-butyl acetate	10 < 20
607-025-00-1	Flam. Liq. 3 H226 / STOT SE 3 H336	
203-550-1	01-2119473980-30-xxxx	
108-10-1	4-methylpentan-2-one	10 < 20
606-004-00-4	Flam. Liq. 2 H225 / Acute Tox. 4 H332 / Eye Irrit. 2 H319 / STOT SE 3 H335	
918-668-5	01-2119455851-35-xxxx	
	Hydrocarbons, C9, aromatics	5 < 7
	Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H335 / STOT SE 3 H336	
	/ Aquatic Chronic 2 H411	
201-159-0	01-2119457290-43-xxxx	
78-93-3	butanone	3 < 5
606-002-00-3	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	
203-603-9	01-2119475791-29-xxxx	
108-65-6	2-methoxy-1-methylethyl acetate	1 < 2,5
607-195-00-7	Flam. Liq. 3 H226	
Additional informat	ion	

Full text of classification: see section 16

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not



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#### use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

- 4.2. **Most important symptoms and effects, both acute and delayed** In all cases of doubt, or when symptoms persist, seek medical advice.
- 4.3. Indication of any immediate medical attention and special treatment needed

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media:

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

#### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

#### 6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

#### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to

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electrostatic charges (TRBS 2153)".

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

#### Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

#### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Occupational exposure limit values: dimethylether INDEX No. 603-019-00-8 / EC No. 204-065-8 / CAS No. 115-10-6 TWA: 766 mg/m3; 400 ppm STEL: 958 mg/m3; 500 ppm n-butyl acetate

INDEX No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

TWA: 724 mg/m3; 150 ppm STEL: 966 mg/m3; 200 ppm

4-methylpentan-2-one

INDEX No. 606-004-00-4 / EC No. 203-550-1 / CAS No. 108-10-1

TWA: 208 mg/m3; 50 ppm STEL: 416 mg/m3; 100 ppm

#### butanone

INDEX No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3

TWA: 600 mg/m3; 200 ppm STEL: 899 mg/m3; 300 ppm

2-methoxy-1-methylethyl acetate

INDEX No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

TWA: 274 mg/m3; 50 ppm STEL: 548 mg/m3; 100 ppm

#### Additional information

TWA : long-term occupational exposure limit value STEL : short-term occupational exposure limit value Ceiling : peak limitation

#### DNEL:

dimethyl ether

INDEX No. 603-019-00-8 / EC No. 204-065-8 / CAS No. 115-10-6 DNEL long-term inhalative (systemic), Workers: 1894 mg/m<sup>3</sup> DNEL long-term inhalative (systemic), Consumer: 471 mg/m<sup>3</sup>

4-methylpentan-2-one

INDEX No. 606-004-00-4 / EC No. 203-550-1 / CAS No. 108-10-1
DNEL long-term dermal (systemic), Workers: 11,8 mg/kg
DNEL acute inhalative (local), Workers: 208 mg/m<sup>3</sup>
DNEL long-term inhalative (systemic), Workers: 83 mg/m<sup>3</sup>
DNEL long-term inhalative (systemic), Workers: 83 mg/m<sup>3</sup>
DNEL long-term oral (repeated), Consumer: 4,2 mg/kg
DNEL acute inhalative (local), Consumer: 155,2 mg/m<sup>3</sup>
DNEL acute inhalative (systemic), Consumer: 14,7 mg/m<sup>3</sup>
DNEL long-term inhalative (systemic), Consumer: 14,7 mg/m<sup>3</sup>

373XX0 PFH Covering Lacquer Article No.: Print date: 22.05.2018 Revision date: 22.05.2018 Version: Issue date: 22.05.2018 1.21 Hydrocarbons, C9, aromatics EC No. 918-668-5 DNEL long-term dermal (systemic), Workers: 25 mg/kg DNEL long-term inhalative (systemic), Workers: 150 mg/m<sup>3</sup> DNEL long-term oral (repeated), Consumer: 11 mg/kg DNEL long-term dermal (systemic), Consumer: 11 mg/kg DNEL long-term inhalative (systemic), Consumer: 32 mg/m<sup>3</sup> butanone INDEX No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3 DNEL long-term dermal (systemic), Workers: 1161 mg/kg DNEL long-term inhalative (systemic), Workers: 600 mg/m<sup>3</sup> DNEL long-term oral (repeated), Consumer: 31 mg/kg DNEL acute dermal, short-term (local), Consumer: 412 mg/kg DNEL long-term dermal (systemic), Consumer: 206 mg/kg DNEL long-term inhalative (systemic), Consumer: 106 mg/m<sup>3</sup> n-butyl acetate INDEX No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4 DNEL acute dermal, short-term (systemic), Workers: 11 mg/kg DNEL long-term dermal (systemic), Workers: 7 mg/kg DNEL acute inhalative (local), Workers: 600 mg/m<sup>3</sup> DNEL acute inhalative (systemic), Workers: 600 mg/m<sup>3</sup> DNEL long-term inhalative (local), Workers: 300 mg/m<sup>3</sup> DNEL long-term inhalative (systemic), Workers: 48 mg/m<sup>3</sup> DNEL short-term oral (acute), Consumer: 2 mg/kg DNEL long-term oral (repeated), Consumer: 2 mg/kg DNEL acute dermal, short-term (systemic), Consumer: 6 mg/kg DNEL long-term dermal (systemic), Consumer: 3,4 mg/kg DNEL acute inhalative (local). Consumer: 300 mg/m<sup>3</sup> DNEL acute inhalative (systemic), Consumer: 300 mg/m<sup>3</sup> DNEL long-term inhalative (local), Consumer: 35,7 mg/m<sup>3</sup> DNEL long-term inhalative (systemic), Consumer: 12 mg/m<sup>3</sup> PNEC: dimethyl ether INDEX No. 603-019-00-8 / EC No. 204-065-8 / CAS No. 115-10-6 PNEC sediment, freshwater: 0,681 mg/kg PNEC, soil: 0,045 mg/kg PNEC sewage treatment plant (STP): 160 mg/l 4-methylpentan-2-one INDEX No. 606-004-00-4 / EC No. 203-550-1 / CAS No. 108-10-1 PNEC aquatic, freshwater: 0,6 mg/l PNEC aquatic, marine water: 0,06 mg/l PNEC aquatic, intermittent release: 1,5 mg/l PNEC sediment, freshwater: 8,27 mg/kg PNEC sediment, marine water: 0,83 mg/kg PNEC, soil: 1,3 mg/kg PNEC sewage treatment plant (STP): 27,5 mg/l butanone INDEX No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3 PNEC aquatic, freshwater: 55,8 mg/l PNEC aquatic, marine water: 55,8 mg/l PNEC aquatic, intermittent release: 55,8 mg/l PNEC sediment, freshwater: 284,7 mg/kg PNEC sediment, marine water: 284,7 mg/kg PNEC, soil: 22,5 mg/kg PNEC sewage treatment plant (STP): 709 mg/l n-butyl acetate INDEX No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4 PNEC aquatic, freshwater: 0,18 mg/l PNEC aquatic, marine water: 0,018 mg/l



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PNEC aquatic, intermittent release: 0,36 mg/l PNEC sediment, freshwater: 0,981 mg/kg PNEC sediment, marine water: 0,0981 mg/kg PNEC, soil: 0,0903 mg/kg

#### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

#### **Occupational exposure controls**

#### **Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

#### Hand protection

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)

Thickness of the glove material > 0,4 mm; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

#### Eye protection

Wear closely fitting protective glasses in case of splashes.

#### **Protective clothing**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

#### Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance: Physical state: Colour:	Liquid refer to label
Odour:	Preparations containing solvent
Odour threshold:	not applicable
pH at 20 °C:	N.A.
Melting point/freezing point:	n.a.
Initial boiling point and boiling range:	<b>-25 °C</b> Method: calculated. Source: dimethyl ether
Flash point:	-41 °C Method: calculated.
Evaporation rate:	not applicable
Flammability (solid, gas): burning time (s):	not applicable
Upper/lower flammability or explosive limits:	
Lower explosion limit:	<b>2,38 Vol-%</b> Method: calculated.
Upper explosion limit:	<b>26,2 Vol-%</b> Method: calculated. Source: dimethyl ether
Vapour pressure at 20 °C:	2318,4447 mbar Method: calculated.
Vapour density:	not applicable

inhalative (vapours), LC50, Rat: 8,3 - 16,6 mg/l (4 h) Harmful by inhalation.



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	e density: v at 20 °C:		<b>),80 g/cm³</b> Method: calculated.		
Solubili Water s	ty(ies): solubility (g/L) at 20		The study does not known to be insolu	need to be conducted beca ble in water.	ause the substance is
Partitio	n coefficient: n-oct	anol/water:	see section 12		
Auto-ig	nition temperature	r	2 <b>26 °C</b> Method: calculated. Source: dimethyl eth	er	
Decomp	osition temperatu	re: r	not applicable		
Viscosi	ty at 20 °C:		<b>3 s 4 mm</b> Method: DIN 53211		
Explosi	ve properties:	I	not applicable		
Oxidisir	ng properties:	r	not applicable		
9.2. Other in	formation				
	ontent (%):	1	I4,46 Wt %		
	content: ic solvents:		36 Wt % ) Wt %		
SECTION 10	: Stability and re	activity			
10.1. Reactiv	ity				
10.2. Chemic	al stability hen applying the re	ecommended regulation	ns for storage and h	andling. Further information of	on correct storage: refer t
	lity of hazardous revealed the second strong acids		ong oxidizing agents	to avoid exothermic reactions.	
10.4. <b>Conditio</b> Hazardo		yproducts may form wit	h exposure to high te	emperatures.	
10.5. Incomp	atible materials				
Hazardo	ous decomposition ous decomposition b hitrogen oxides.		vith exposure to hig	n temperatures, e.g.: carbon o	dioxide, carbon monoxide
<b>SECTION 11</b>	: Toxicological i	nformation			
	ation according to R on preparation itself	egulation (EC) No 1272 available.	2/2008 [CLP]		
11.1. Informa	tion on toxicologic	cal effects			*
Acute to	oxicity				
oral, L[ dermal	xy-1-methylethyl ace 050, Rat: 8532 mg/k , LD50, Rabbit: > 50 on available data, th	g	are not met.		
	050, Rat: > 10000 m	g/kg e classification criteria a	ire not met.		
oral, LI Methoo dermal	pentan-2-one D50, Rat: > 2193 mg d: OECD 401 , LD50, Rat: > 2000 d: OECD 402	-			



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Hydrocarbons, C9, aromatics oral, LD50, Rat: 3592 mg/kg Method: OECD 401 dermal, LD50, Rabbit: > 3160 mg/kg Method: OECD 402 Based on available data, the classification criteria are not met.

butanone

oral, LD50, Rat: > 2193 mg/kg Method: OECD 423 dermal, LD50, Rabbit: > 5000 mg/kg Method: OECD 402 inhalative (vapours), LC50, Rat: 34 mg/l (4 h) Based on available data, the classification criteria are not met.

#### n-butyl acetate

oral, LD50, Rat: 10760 mg/kg Method: OECD 423 dermal, LD50, Rabbit: > 14112 mg/kg Method: OECD 402 inhalative (vapours), LC50, Rat: 23,4 mg/l (4 h) Method: OECD 403 Based on available data, the classification criteria are not met.

### skin corrosion/irritation; Serious eye damage/eye irritation

- 4-methylpentan-2-one eyes Causes serious eye irritation.
- butanone eyes, Rabbit Method: OECD 405 Causes serious eye irritation.

#### Respiratory or skin sensitisation

Toxicological data are not available.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Toxicological data are not available.

### Specific target organ toxicity

4-methylpentan-2-one

Specific target organ toxicity (single exposure), Irritation: May cause respiratory irritation.

#### Hydrocarbons, C9, aromatics

Specific target organ toxicity (single exposure), Irritation: May cause respiratory irritation. Specific target organ toxicity (single exposure), drowsiness: May cause drowsiness or dizziness.

#### butanone

Specific target organ toxicity (single exposure), drowsiness: May cause drowsiness or dizziness.

#### n-butyl acetate

Specific target organ toxicity (single exposure), drowsiness: May cause drowsiness or dizziness.

#### Aspiration hazard

Hydrocarbons, C9, aromatics Aspiration hazard May be fatal if swallowed and enters airways.

## Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache,



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dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

#### **Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

#### **SECTION 12: Ecological information**

#### overall evaluation

Classification according to Regulation (EC) No 1272/2008 [CLP] There is no information available on the preparation itself . Do not allow to enter into surface water or drains.

#### 12.1. Toxicity

2-methoxy-1-methylethyl acetate Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 100 - 180 mg/l (96 h) Method: OECD 203 Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 500 mg/l (48 h) Based on available data, the classification criteria are not met.

#### 4-methylpentan-2-one

Fish toxicity, LC50: > 179 mg/l (96 h) Method: OECD 202 Daphnia toxicity, EC50, Daphnia magna: > 200 mg/l (48 h) Method: OECD 202 Bacteria toxicity, EC50, Pseudomonas putida: 275 mg/l (16 h) Based on available data, the classification criteria are not met.

Hydrocarbons, C9, aromatics

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 9,2 mg/l (96 h) Daphnia toxicity, EC50, Daphnia magna (Big water flea): 3,2 mg/l (48 h) Method: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 2,6 - 2,9 mg/l (72 h) Based on available data, the classification criteria are not met.

#### butanone

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 2990 mg/l  $\,$  (96 h) Method: OECD 203  $\,$ 

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 308 mg/l (48 h) Method: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 1972 mg/l (72 h) Method: OECD 201

Bacteria toxicity, EC0, Pseudomonas putida: 1150 mg/l (16 h)

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

#### n-butyl acetate

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 18 mg/l (96 h) Method: OECD 203 Daphnia toxicity, EC50, Daphnia magna (Big water flea): 44 mg/l (48 h) Method: OECD 202

Algae toxicity, EC50, Desmodesmus subspicatus.: 397 mg/l (72 h) Method: OECD 201

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

#### Long-term Ecotoxicity

4-methylpentan-2-one Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 30 - 35 mg/l (21 D) Method: OECD 211 Based on available data, the classification criteria are not met.

Hydrocarbons, C9, aromatics Fish toxicity, LC50: (96 h) Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 12.2. Persistence and degradability

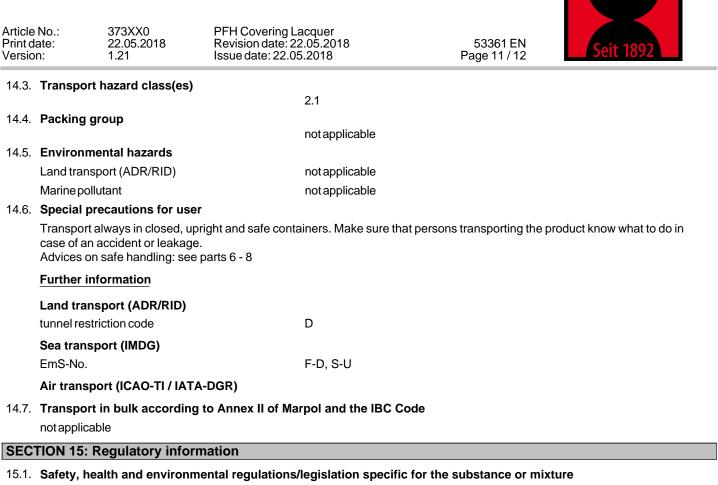


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	2-methoxy-1-methylethyl acetate Biodegradation: 100 % (8 D) Readily biodegradable (according to OECD criteria).						
	4-methylpentan-2-one Biodegradation:: 83 % (28 D) Method: OECD 301 F Readily biodegradable (according to OECD criteria). Hydrocarbons, C9, aromatics Biodegradation: Readily biodegradable (according to OECD criteria).						
		butanone Biodegradation: 98 % (28 d) Readily biodegradable (according to OECD criteria).					
	n-butyl acetate Biodegradation, aerobic: 83 % (28 D) Method: OECD 301D Readily biodegradable (according to OECD criteria).						
12.3.	Bioaccum	Bioaccumulative potential					
	2-methoxy-1-methylethyl acetate Partition coefficient: n-octanol/water: 0,43 Method: Log KOC						
	dimethyl et Partition	her coefficient: n-octano	ol/water: < 4				
	Partition	entan-2-one coefficient: n-octane	ol/water: 1,31 0-1,9				
	butanone Partition	coefficient: n-octand	bl/water: 0,3				
		tate coefficient: n-octanc DECD 117	bl/water: 2,3				
12.4.	Mobility in soil Toxicological data are not available.						
12.5.	Results of	Results of PBT and vPvB assessment					
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.							
12.6.	6. Other adverse effects						
SEC	TION 13: [	Disposal conside	erations				
13.1.	Waste trea	atment methods					
	Recomme						
	Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.						
	List of proposed waste codes/waste designations in accordance with EWC 150110 packaging containing residues of or contaminated by dangerous substances						
	packaging Recommendation Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.						
SEC	TION 14: 1	Fransport inform	nation				
14.1.	UN numbe	er	UN 1950				
14.2.		r shipping name					
	I and trans	port (ADR/RID)	AFROSOLS flam	mahle			

AEROSOLS, flammable AEROSOLS AEROSOLS, flammable

Land transport (ADR/RID): Sea transport (IMDG):

Air transport (ICAO-TI / IATA-DGR):



#### EU legislation

#### Directive 2010/75/EU on industrial emissions

VOC-value (in g/L): 680,903

#### National regulations

#### **Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

#### 15.2. Chemical Safety Assessment

#### For the following substances of this preparation a chemical safety assessment has been carried out:

EC No. CAS No.	Chemical name	REACH No.
204-065-8 115-10-6	dimethylether	01-2119472128-37-xxxx
204-658-1 123-86-4	n-butyl acetate	01-2119485493-29-xxxx
203-550-1 108-10-1	4-methylpentan-2-one	01-2119473980-30-xxxx
918-668-5	Hydrocarbons, C9, aromatics	01-2119455851-35-xxxx
201-159-0 78-93-3	butanone	01-2119457290-43-xxxx
203-603-9 108-65-6	2-methoxy-1-methylethyl acetate	01-2119475791-29-xxxx

### **SECTION 16: Other information**

Full text of classification in section 3:						
Flam. Gas 1 / H220	flammablegases	Extremely flammable gas.				
compressed gas / H280	Gases under pressure	Contains gas under pressure; may explode if heated.				
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.				
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.				



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Flam. Lio	q. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.	
Acute To	ox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.	
Eye Irrit.	2/H319	Serious eye damage/eye irritation	Causes serious eye irritation.	
STOT S	E 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation. May be fatal if swallowed and enters airways.	
Asp. Tox	(. 1 / H304	Aspiration hazard		
Aquatic	Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.	

#### Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

## Further information

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

\* Data changed compared with the previous version