

according to UK REACH Regulation

1071 Hohlraumversiegelungs-Spray 500 ml AB

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

1.1. Product identifier

1071 Hohlraumversiegelungs-Spray 500 ml AB

UFI: FCR3-000Y-7000-5PG7

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

Use of the substance/mixture

Lubricant

1.3. Details of the supplier of the safety data sheet

Company name: TUNAP GmbH & Co. KG
Street: Buergermeister-Seidl-Strasse 2
Place: D-82515 Wolfratshausen

Telephone: +49 (0) 8171/1600-0 Telefax: +49 (0) 8171/1600-40

E-mail: sdb@tunap.com Internet: www.tunap.com

1.4. Emergency telephone 111 NHS (National Health Service)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aerosol 1; H222-H229 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT SE 3; H336 STOT RE 2; H373 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

N-Tallowalkyl-1,3-propanediamine

4-Nonylphenoxyacetic acid

Signal word: Danger

Pictograms:











Print date: 03.11.2024

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H336 May cause drowsiness or dizziness.



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H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 k	∖eep awav f	from heat. ho	ot surfaces. sparks	s, open flames and o	other ignition sources. No

smokina.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe Aerosol.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves and eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Reg	ulation)	•	
75-28-5	isobutane			25 - < 50 %
	200-857-2	601-004-00-0	01-2119485395-27	
	Flam. Gas 1, Liquefied gas;	H220 H280	•	
64742-49-0	Hydrocarbons, C6-C7, n-alk	anes, isoalkanes, cyclics, < 5% r	n-hexane	10 - < 20 %
	921-024-6		01-2119475514-35	
	Flam. Liq. 2, Skin Irrit. 2, ST H411	OT SE 3, Asp. Tox. 1, Aquatic C	hronic 2; H225 H315 H336 H304	
64742-49-0	Hydrocarbons, C7, n-alkane	es, isoalkanes, cyclics		10 - < 20 %
	927-510-4		01-2119475515-33	
	Flam. Liq. 2, Skin Irrit. 2, ST H411	OT SE 3, Asp. Tox. 1, Aquatic C	hronic 2; H225 H315 H336 H304	
74-98-6	propane			5 - < 10 %
	200-827-9	601-003-00-5	01-2119486944-21	
	Flam. Gas 1, Liquefied gas;	H220 H280		
64742-48-9	Naphtha (petroleum), hydro	3 - < 5 %		
	265-150-3		01-2119486659-16	
	Flam. Liq. 1, Asp. Tox. 1; H			
106-97-8	butane	1 - < 3 %		
	203-448-7	601-004-00-0	01-2119474691-32	
	Flam. Gas 1, Liquefied gas;			
61791-55-7	N-Tallowalkyl-1,3-propaned	1 - < 3 %		
	263-189-0		01-2119487014-41	
	Acute Tox. 4, Skin Corr. 1B, H400 H410	STOT RE 1, Aquatic Acute 1, A	quatic Chronic 1; H302 H314 H372	
3115-49-9	4-Nonylphenoxyacetic acid			0.1 - < 1 %
	221-486-2		01-2119982392-31	
	Acute Tox. 4, Skin Corr. 1B, H400 H410	Skin Sens. 1A, Aquatic Acute 1,	Aquatic Chronic 1; H302 H314 H317	
67-64-1	Acetone	0.1 - < 1 %		
	200-662-2	606-001-00-8	01-2119471330-49	
	Flam. Liq. 2, Eye Irrit. 2, ST	OT SE 3; H225 H319 H336 EUH	066	
110-91-8	morpholine	< 0.1 %		
	203-815-1		01-2119496057-30	
	Flam. Liq. 3, Repr. 2, Acute H361fd H331 H311 H302 H			

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



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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity					
	Specific Conc	pecific Conc. Limits, M-factors and ATE						
64742-49-0	921-024-6	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	10 - < 20 %					
	inhalation: LC50 = > 25,2 mg/l (vapours); dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 = > 5000 mg/kg							
64742-49-0	927-510-4	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	10 - < 20 %					
	inhalation: LC50 = > 23,3 mg/l (vapours); dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 = 5500 mg/kg							
61791-55-7	263-189-0	N-Tallowalkyl-1,3-propanediamine	1 - < 3 %					
	oral: LD50 = 3	>300 - 2000 mg/kg Aquatic Chronic 1; H410: M=10						
3115-49-9	221-486-2	4-Nonylphenoxyacetic acid	0.1 - < 1 %					
	oral: LD50 = 1674 mg/kg							
67-64-1	200-662-2	Acetone	0.1 - < 1 %					
	inhalation: LC	inhalation: LC50 = 76 mg/l (vapours); dermal: LD50 = 20000 mg/kg; oral: LD50 = 5800 mg/kg						
110-91-8	203-815-1	morpholine	< 0.1 %					
	inhalation: LC50 = 8 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = ca. 500 mg/kg; oral: LD50 = ca. 1900 mg/kg							

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

After inhalation

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Headache, nausea, dizziness, fatigue, skin irritation

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

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Extinguishing powder.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high



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concentrations or in enclosed spaces.

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

Additional information

Danger of bursting container.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protection equipment.

For non-emergency personnel

First aider: Pay attention to self-protection!

For emergency responders

Fight fire with normal precautions from a reasonable distance.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

6.3. Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

When using do not eat, drink, smoke, sniff.

Wear personal protection equipment (refer to section 8).

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting.

Advice on general occupational hygiene

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

Further information on handling

Avoid contact with skin and eyes.



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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Observe legal regulations and provisions.

Hints on joint storage

Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

Further information on storage conditions

Protect from frost. Protect from direct sunlight. Store in a cool dry place. Observe legal regulations and provisions.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
110-91-8	Morpholine	10	36		TWA (8 h)	WEL
		20	72		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5%	n-hexane		
Worker DNEL,	long-term	inhalation	systemic	2035 mg/m³
Worker DNEL,	long-term	dermal	systemic	773 mg/kg bw/day
Consumer DNE	EL, long-term	inhalation	systemic	608 mg/m³
Consumer DNE	EL, long-term	dermal	systemic	699 mg/kg bw/day
Consumer DNE	EL, long-term	oral	systemic	699 mg/kg bw/day
64742-49-0 Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics				
Worker DNEL,	long-term	inhalation	systemic	2085 mg/m³
Worker DNEL,	long-term	dermal	systemic	300 mg/kg bw/day
Consumer DNE	EL, long-term	inhalation	systemic	447 mg/m³
Consumer DNE	EL, long-term	dermal	systemic	149 mg/kg bw/day
Consumer DNE	EL, long-term	oral	systemic	149 mg/kg bw/day
110-91-8	morpholine			
Worker DNEL,	long-term	inhalation	systemic	91 mg/m³
Worker DNEL,	long-term	inhalation	local	36 mg/m³
Worker DNEL, acute		inhalation	local	72 mg/m³
Worker DNEL, long-term		dermal	systemic	1,04 mg/kg bw/day
Consumer DNE	EL, long-term	oral	systemic	6,3 mg/kg bw/day



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PNEC values

CAS No	Substance				
Environmenta	Environmental compartment				
110-91-8 morpholine					
Freshwater	Freshwater				
Freshwater (i	0,09 mg/l				
Marine water		0,016 mg/l			
Freshwater se	ediment	1,83 mg/kg			
Marine sedim	Marine sediment				
Micro-organisms in sewage treatment plants (STP)		10 mg/l			
Soil		0,269 mg/kg			

Additional advice on limit values

a no restriction

b End of exposure or end of shift

c at long-term exposure:

d before next shift

blood (B) Urine (U)

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.

EN 166

Hand protection

Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (Nitrile rubber) Breakthrough time: 480min

Thickness of the glove material 0,45 mm

EN ISO 374

Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

When exceeding the relevant workplace exposure limits, note the following:

Suitable respiratory protective equipment: Combination filter device (DIN EN 141)...

Filtering device with filter or ventilator filtering device of type: AX

Observe the wear time limits as specified by the manufacturer.

Observe legal regulations and provisions.

Environmental exposure controls

Observe legal regulations and provisions.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Aerosol
Colour: brown
Odour: solvent like

Test method

Lower explosion limits: 0,6 vol. % Upper explosion limits: 15 vol. % Flash point: -80 °C

pH-Value (at 20 °C): DIN 19268
Density (at 20 °C): 0,658 g/cm³ DIN 51757

9.2. Other information

Data apply to technical substance: Relative density, Colour, Odour, Viscosity, pH.

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable aerosol.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Take precautionary measures against static discharges.

10.5. Incompatible materials

Oxidizing agents. Pyrophoric or self-heating substances.

10.6. Hazardous decomposition products

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

Further information

Do not mix with other chemicals.

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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CAS No	S No Chemical name								
	Exposure route	Dose	Species	Source	Method				
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane								
	oral	LD50 > 5000 mg/kg	Rat						
	dermal	LD50 > 2800 - 3100 mg/kg	Rat						
	inhalation (4 h) vapour	LC50 > 25,2 mg/l	Rat						
64742-49-0	Hydrocarbons, C7, n-alk	anes, isoalkanes, cycli	os						
	oral	LD50 5500 mg/kg	Rat						
	dermal	LD50 > 2800 - 3100 mg/kg	Rat	Study report (1977)	The acute toxicity of SBP 100/140 was de				
	inhalation (4 h) vapour	LC50 > 23,3 mg/l	Rat	Study report (1988)	OECD Guideline 403				
61791-55-7 N-Tallowalkyl-1,3-propanediamine									
	oral	LD50 >300 - 2000 mg/kg	Rat						
3115-49-9	4-Nonylphenoxyacetic ac	oid							
	oral	LD50 1674 mg/kg	Rat						
67-64-1	Acetone								
	oral	LD50 5800 mg/kg	Rat	RTECS					
	dermal	LD50 20000 mg/kg	Rabbit	IUCLID					
	inhalation (4 h) vapour	LC50 76 mg/l	Rat						
110-91-8	morpholine								
	oral	LD50 ca. 1900 mg/kg	Rat	Study report (1967)	OECD Guideline 401				
	dermal	LD50 ca. 500 mg/kg	Rabbit	Arch. Ind. Hyg Occup. Med. 10 61–68 (195	OECD Guideline 402				
	inhalation (4 h) vapour	LC50 8 mg/l	Rat						
	inhalation dust/mist	ATE 0,5 mg/l							

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

Vapours may cause drowsiness and dizziness. After skin contact: irritant.

Sensitising effects

May cause an allergic skin reaction. (4-Nonylphenoxyacetic acid)

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

No indication of human carcinogenicity.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.



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STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane; Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (N-Tallowalkyl-1,3-propanediamine)

Aspiration hazard

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

Information on likely routes of exposure

Ingestion, Inhalation, Skin contact, Eye contact.

Reference to other sections: 2.1, 4.2.

Specific effects in experiment on an animal

No information available.

Additional information on tests

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

11.2. Information on other hazards

Endocrine disrupting properties

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

Other information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.



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	Chemical name									
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method			
64742-49-0	Hydrocarbons, C6-C7, n-a	alkanes, isoa	alkanes, cycl	ics, < 5%	n-hexane					
	Acute fish toxicity	LC50 mg/l	> 1-10	96 h	Pimephales promelas					
	Acute algae toxicity	ErC50 mg/l	10 - 30	72 h	Pseudokirchneriella subcapitata	Study report (1995)	OECD Guideline 201			
	Acute crustacea toxicity	EC50 mg/l	> 1-10	48 h	Daphnia magna					
	Fish toxicity	NOEC mg/l	2,045	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)				
	Crustacea toxicity	NOEC	1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM	OECD Guideline 211			
4742-49-0	Hydrocarbons, C7, n-alka	nes, isoalka	nes, cyclics							
	Acute fish toxicity	LL50 mg/l	> 13,4	96 h	Oncorhynchus mykiss	Study report (2004)	OECD Guideline 203			
	Acute algae toxicity	ErC50	12 mg/l	72 h	Pseudokirchneriella subcapitata	SIDS Initial Assessment Report For SIAM	OECD Guideline 201			
	Acute crustacea toxicity	EC50 mg/l	>1 - 10	48 h	Daphnia magna					
	Fish toxicity	NOEC mg/l	1,534	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)				
	Crustacea toxicity	NOEC	1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM	OECD Guideline 211			
31791-55-7	N-Tallowalkyl-1,3-propanediamine									
	Acute fish toxicity	LC50 0,1 mg/l	>0,02 -	96 h	Danio rerio (zebrafish)					
	Acute algae toxicity	ErC50 0,1 mg/l	>0,02 -	72 h	Desmodesmus subspicatus					
	Acute crustacea toxicity	EC50 0,1 mg/l	>0,02 -	48 h	Daphnia magna (Big water flea)					
3115-49-9	4-Nonylphenoxyacetic aci	id								
	Acute fish toxicity	LC50	9 mg/l	96 h	Danio rerio (zebrafish)					
	Acute crustacea toxicity	EC50 mg/l	0,88	48 h	Daphnia magna					
67-64-1	Acetone									
	Acute fish toxicity	LC50 mg/l	5540	96 h	Oncorhynchus mykiss					
	Acute crustacea toxicity	EC50 mg/l	6100	48 h	Daphnia magna					
10-91-8	morpholine									
	Acute fish toxicity	LC50	380 mg/l	96 h	Oncorhynchus mykiss	Chemosphere 9: 753-762 (1980)	other: IRSA			
	Acute algae toxicity	ErC50	28 mg/l	96 h	Pseudokirchneriella subcapitata	Chemosphere 9: 753-762 (1980)	other: EPA, National Eutrophication Rese			



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Acute crustacea toxicity	EC50 mg/l	44,5	48 h	Daphnia magna	, ,	OECD Guideline 202
Algae toxicity	NOEC	10 mg/l		Desmodesmus subspicatus		
Crustacea toxicity	NOEC	5 mg/l	21 d	Daphnia magna	, ,	OECD Guideline 211

12.2. Persistence and degradability

There are no data available on the mixture itself. AOX (mg/l): 0

CAS No	Chemical name							
	Method	Value	d	Source				
	Evaluation	•		-				
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane							
	OECD Guideline 301 F 98% 28 ECHA							
	Easily biodegradable (concerning to the criteria of the OECD)							
3115-49-9	4-Nonylphenoxyacetic acid							
	OECD 301B; ISO 9439; 92/69/EWG, C.4-C	42 - 46 %	28					
	Moderately/partially biodegradable.							
110-91-8	morpholine							
	OECD 301E	93%	25					
	Easily biodegradable (concerning to the criteria of the OEC	D)	·					
	OECD 302B	92%	28					

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-28-5	isobutane	2,8
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	3,4 - 5,2
74-98-6	propane	2,36
106-97-8	butane	2,89
67-64-1	Acetone	-0,24
110-91-8	morpholine	-2,55

BCF

CAS No	Chemical name	BCF	Species	Source
110-91-8	morpholine	0	Cyprinus carpio	Review article or ha

12.4. Mobility in soil

No information 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.

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods



Safety Data Sheet

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Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; gases in pressure containers (including halons) containing hazardous

substances: hazardous waste

List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; gases in pressure containers (including halons) containing hazardous

substances; hazardous waste

List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately

collected municipal packaging waste); metallic packaging

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1950 **14.2. UN proper shipping name:** AEROSOLS

14.3. Transport hazard class(es):214.4. Packing group:-Hazard label:2.1Classification code:5F

Special Provisions: 190 327 344 625

Limited quantity:1 LExcepted quantity:E0Transport category:2Tunnel restriction code:D

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1950 **14.2. UN proper shipping name:** AEROSOLS

14.3. Transport hazard class(es):214.4. Packing group:-Hazard label:2.1Classification code:5F

Special Provisions: 190 327 344 625

Limited quantity: 1 L
Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number or ID number: UN 1950

14.2. UN proper shipping name: AEROSOLS (N-Tallowalkyl-1,3-propanediamine)

14.3. Transport hazard class(es):2.114.4. Packing group:-Hazard label:2.1Marine pollutant:Yes

Special Provisions: 63, 190, 277, 327, 344, 381,959

Limited quantity: 1000 mL Excepted quantity: E0 EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1950

14.2. UN proper shipping name: AEROSOLS, flammable



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14.3. Transport hazard class(es):2.114.4. Packing group:-Hazard label:2.1

Special Provisions: A145 A167 A802

Limited quantity Passenger: 30 kg G
Passenger LQ: Y203
Excepted quantity: E0

IATA-packing instructions - Passenger:203IATA-max. quantity - Passenger:75 kgIATA-packing instructions - Cargo:203IATA-max. quantity - Cargo:150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: N-Tallowalkyl-1,3-propanediamine

14.6. Special precautions for user

Warning: Flammable gases

14.7. Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 29, Entry 40, Entry 75

Directive 2010/75/EU on industrial No information available.

emissions:

Directive 2004/42/EC on VOC in No information available.

paints and varnishes:

Marketing and use of explosives precursors (Regulation (EU) 2019/1148):

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant

disappearances and thefts should be reported to the relevant national contact point.

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Aerosol Directive (75/324/EEC)

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,6,11,15.



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Abbreviations and acronyms

Flam. Gas: Flammable gases

Aerosol: Aerosols Liquefied gas

Flam. Liq: Flammable liquids Acute Tox: Acute toxicity Asp. Tox: Aspiration hazard Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Eye Irrit: Eye irritation Skin Sens: Skin sensitisation

Skin Sens: Skin sensitisation
Repr: Reproductive toxicity

STOT SE: Specific target organ toxicity - single exposure STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement

concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level

WEL (UK): Workplace Exposure Limits TWA (EC): Time-Weighted Average

ATE: Acute Toxicity Estimate

STEL (EC) Short Term Exposure Limit

LC50: Lethal Concentration

EC50: half maximal Effective Concentration

ErC50: means EC50 in terms of reduction of growth rate

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

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Skin Irrit. 2; H315	Bridging principle "Aerosols"
Eye Dam. 1; H318	Bridging principle "Aerosols"
Skin Sens. 1; H317	Bridging principle "Aerosols"
STOT SE 3; H336	Bridging principle "Aerosols"
STOT RE 2; H373	Bridging principle "Aerosols"
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

	, 3
H222	Extremely flammable aerosol.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.

Extremely flammable gas.

H220



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H304	May be fatal if swallowed and enters airways.		
H311	Toxic in contact with skin.		
H314	Causes severe skin burns and eye damage.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H331	Toxic if inhaled.		
H336	May cause drowsiness or dizziness.		
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.		
H372	Causes damage to organs through prolonged or repeated exposure.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
EUH066	Repeated exposure may cause skin dryness or cracking.		
Further Information			

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)