

**innobike 105 High Tech KETTENFLUID**

Revision date: 29.09.2021

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

**1.1. Product identifier**

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

**Use of the substance/mixture**

Aerosol - Lubricants, greases, release products

Consumer uses: Private households (= general public = consumers)

**1.3. Details of the supplier of the safety data sheet**

Company name: innotech-Vertriebs GmbH

Street: Junkerstrasse 16

Place: D-93055 Regensburg

Telephone: +49 (0) 941 70 08 78

Telefax: +49 (0) 941 70 46 60

e-mail: info@innotech-r.de

Contact person: Mr. Massen

Internet: www.innotech-r.de

Responsible Department: sales department

**1.4. Emergency telephone**

+49 (0) 941 70 08 78

**number:**

Only available during office hours.

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**GB CLP Regulation**

Hazard categories:

Aerosol: Aerosol 1

Aspiration hazard: Asp. Tox. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

May be fatal if swallowed and enters airways.

Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

**GB CLP Regulation**

**Signal word:** Danger

**Pictograms:**



**Hazard statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

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.

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P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to in accordance with local/regional/national/international regulation.

**Special labelling of certain mixtures**

EUH066 Repeated exposure may cause skin dryness or cracking.

**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**

**Hazardous components**

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	45 - < 50 %
	918-481-9	
	01-2119457273-39	
	Asp. Tox. 1; H304 EUH066	
106-97-8	butane	20 - < 25 %
	203-448-7	
	601-004-00-0	
	01-2119474691-32	
	Flam. Gas 1, Liquefied gas; H220 H280	
74-98-6	propane	10 - < 12.5 %
	200-827-9	
	601-003-00-5	
	01-2119486944-21	
	Flam. Gas 1, Liquefied gas; H220 H280	
	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	2.5 - < 5 %
	920-750-0	
	01-2119473851-33	
	Flam. Liq. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H336 H304 H411 EUH066	
68937-41-7	Phenol, isopropylated, phosphate (3:1)	0.1 - < 0.5 %
	273-066-3	
	01-2119535109-41	
	Repr. 2, STOT RE 2, Aquatic Chronic 2; H361fd H373 H411	
61791-55-7	N-Tallow propylene diamine	0.1 - < 0.5 %
	263-189-0	
	01-2119487014-41	
	Acute Tox. 4, Skin Corr. 1B, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 2; H302 H314 H372 H400 H411	
115-86-6	Triphenyl phosphate	0.1 - < 0.5 %
	204-112-2	
	01-2119457432-41	
	Aquatic Chronic 1; H410	

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. Limits, M-factors and ATE	
	918-481-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	45 - < 50 %
		inhalation: LC50 = >20 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
	920-750-0	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	2.5 - < 5 %
		inhalation: LC50 = (16) mg/l (vapours); dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 = >5000 mg/kg	
68937-41-7	273-066-3	Phenol, isopropylated, phosphate (3:1)	0.1 - < 0.5 %
		dermal: LD50 = > 10000 mg/kg	
61791-55-7	263-189-0	N-Tallow propylene diamine	0.1 - < 0.5 %
		oral: ATE = 500 mg/kg	
115-86-6	204-112-2	Triphenyl phosphate	0.1 - < 0.5 %
		dermal: LD50 = > 10000 mg/kg; oral: LD50 = > 20000 mg/kg	

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.

**After inhalation**

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

**After contact with skin**

Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. After contact with skin, wash immediately with plenty of water and soap.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

**After ingestion**

Observe risk of aspiration if vomiting occurs. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

**Unsuitable extinguishing media**

Water.

**5.2. Special hazards arising from the substance or mixture**

Extremely flammable aerosol. Pressurized container: May burst if heated. Vapours can form explosive mixtures with air.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

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**Additional information**

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

**SECTION 6: Accidental release measures**

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

**General measures**

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**6.2. Environmental precautions**

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

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

**Other information**

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

**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**

Do not pierce or burn, even after use.

**Advice on protection against fire and explosion**

Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

**Advice on general occupational hygiene**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

**Further information on handling**

Heating causes rise in pressure with risk of bursting.

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

**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Hints on joint storage**

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

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

Aerosol - Lubricants, greases, release products

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

**8.1. Control parameters**

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**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
115-86-6	Triphenyl phosphate	-	3		TWA (8 h)	WEL
		-	6		STEL (15 min)	WEL

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics				
Worker DNEL, long-term		dermal	systemic	773 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	2035 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	699 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	608 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	699 mg/kg bw/day
68937-41-7 Phenol, isopropylated, phosphate (3:1)				
Worker DNEL, long-term		inhalation	systemic	0,145 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	700 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,416 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	2000 mg/kg bw/day
Worker DNEL, acute		dermal	local	16 mg/cm <sup>2</sup>
Consumer DNEL, acute		inhalation	systemic	350 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,208 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	100 mg/kg bw/day
Consumer DNEL, acute		dermal	local	8 mg/cm <sup>2</sup>
Consumer DNEL, long-term		oral	systemic	0,04 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	50 mg/kg bw/day
115-86-6 Triphenyl phosphate				
Worker DNEL, long-term		inhalation	systemic	5,2 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	5,55 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,9 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	1,98 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,5 mg/kg bw/day

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**PNEC values**

CAS No	Substance	Value
Environmental compartment		
68937-41-7	Phenol, isopropylated, phosphate (3:1)	
Freshwater		0 mg/l
Freshwater (intermittent releases)		0,015 mg/l
Marine water		0 mg/l
Freshwater sediment		0,185 mg/kg
Marine sediment		0,018 mg/kg
Secondary poisoning		1,85 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		2,5 mg/kg
115-86-6	Triphenyl phosphate	
Freshwater		0,004 mg/l
Freshwater (intermittent releases)		0,003 mg/l
Marine water		0 mg/l
Freshwater sediment		1,103 mg/kg
Marine sediment		0,11 mg/kg
Secondary poisoning		16,667 mg/kg
Micro-organisms in sewage treatment plants (STP)		5 mg/l
Soil		0,218 mg/kg

**8.2. Exposure controls**

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Wear eye/face protection. Suitable eye protection: Eye glasses with side protection DIN EN 166

**Hand protection**

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), Butyl caoutchouc (butyl rubber) (EN ISO 374)

Thickness of the glove material:  $\geq 0,4$ mm.

Breakthrough time: 480 min

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.

**Skin protection**

Wear anti-static footwear and clothing

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Suitable respiratory protection apparatus:

Combination filtering device AX-P2

**SECTION 9: Physical and chemical properties**

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

Physical state:	Liquid
Colour:	light yellow
Odour:	characteristic

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**Test method**

**Changes in the physical state**

Melting point/freezing point:	not applicable
Boiling point or initial boiling point and boiling range:	< -20 °C
Flash point:	< -20 °C

**Flammability**

Solid/liquid:	not applicable
Gas:	not applicable

**Explosive properties**

Heating may cause an explosion. In use may form flammable/explosive vapour-air mixture.

Lower explosion limits:	0,6 vol. %
Upper explosion limits:	10,9 vol. %
Auto-ignition temperature:	>220 °C
Decomposition temperature:	not determined

**Oxidizing properties**

The product is not: oxidising.

pH-Value:	not applicable
Viscosity / dynamic:	not applicable
Water solubility: (at 20 °C)	practically insoluble

**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	0,685 g/cm <sup>3</sup> calculated.
Relative vapour density:	not determined

**9.2. Other information**

**Information with regard to physical hazard classes**

Sustaining combustion:	No data available
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**Other safety characteristics**

Solid content:	not determined
Evaporation rate:	not determined

**Further Information**

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Extremely flammable aerosol. Pressurized container: May burst if heated.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**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.

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**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information**

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

**Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1988)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1989)	OECD Guideline 402
	inhalation (4 h) vapour	LC50 >20 mg/l	Rat	OECD 403	
	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics				
	oral	LD50 >5000 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 (16) mg/l	Rat	Toxicology and Applied Pharmacology 32:	OECD Guideline 403
68937-41-7	Phenol, isopropylated, phosphate (3:1)				
	dermal	LD50 > 10000 mg/kg	Rabbit	Study report (1976)	other: 16 CFR 1500.40
61791-55-7	N-Tallow propylene diamine				
	oral	ATE 500 mg/kg			
115-86-6	Triphenyl phosphate				
	oral	LD50 > 20000 mg/kg	Rat	Study report (1976)	OECD Guideline 401
	dermal	LD50 > 10000 mg/kg	Rabbit	Study report (1976)	OECD Guideline 402

**Irritation and corrosivity**

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

**Sensitising effects**

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.

**STOT-single exposure**

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

**STOT-repeated exposure**

Repeated exposure may cause skin dryness or cracking.

**Aspiration hazard**

May be fatal if swallowed and enters airways.

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**11.2. Information on other hazards**

**Endocrine disrupting properties**

No information available.

**Further information**

No further relevant information available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Harmful to aquatic life with long lasting effects.

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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	96 h	Oncorhynchus mykiss	OECD Guideline 203	
	Acute algae toxicity	ErC50 > 1000 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 1000 mg/l	48 h	Daphnia magna	OECD Guideline 202	
106-97-8	butane					
	Acute fish toxicity	LC50 49,9 mg/l	96 h	Fish, no other information	United States Environmental Protection A	The Ecosar class program has been developed primarily for the evaluation of neutral organic compounds and organic classes with excess toxicity.
	Acute algae toxicity	ErC50 19,37 mg/l	96 h	Algae	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.
	Acute crustacea toxicity	EC50 69,43 mg/l	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.
74-98-6	propane					
	Acute fish toxicity	LC50 49,9 mg/l	96 h	Fish, no other information	United States Environmental Protection A	The Ecosar class program has been developed primarily for the evaluation of neutral organic compounds and organic classes with excess toxicity.
	Acute algae toxicity	ErC50 19,37 mg/l	96 h	Algae	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.
	Acute crustacea toxicity	EC50 69,43 mg/l	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.
	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics					
	Acute fish toxicity	LC50 3 - 10 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203	
	Acute algae toxicity	ErC50 10 - 30 mg/l	72 h	Raphidocelis subcapitata	OECD Guideline 201	
	Acute crustacea toxicity	EC50 7,4 mg/l	48 h	Daphnia magna	SIDS Initial Assessment Report For SIAM	OECD Guideline 202
	Fish toxicity	NOEC 0,574 mg/l	28 d	Oncorhynchus mykiss	Hydrocarbon Solvents Consortium SEIF (HS	The aquatic toxicity was estimated by a

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	Algae toxicity	NOEC (10) mg/l	3 d	Pseudokirchneriella subcapitata		
	Crustacea toxicity	NOEC 1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM	OECD Guideline 211
68937-41-7	Phenol, isopropylated, phosphate (3:1)					
	Acute fish toxicity	LC50 10,8 mg/l	96 h	Pimephales promelas	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 > 2,5 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	EU Method C.3
	Acute crustacea toxicity	EC50 1,5 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Acute bacteria toxicity	(> 1000 mg/l)	3 h	activated sludge, domestic	REACH Registration Dossier	OECD Guideline 209

**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			
	Biodegradation	80%	28	
	Readily biodegradable (according to OECD criteria).			
	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics			
	Biodegradation	98%	28	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D
	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
106-97-8	butane	1,09
74-98-6	propane	1,09
68937-41-7	Phenol, isopropylated, phosphate (3:1)	85000 - 150000
115-86-6	Triphenyl phosphate	4,63

**BCF**

CAS No	Chemical name	BCF	Species	Source
	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	144,3	calculated	Other company data (
68937-41-7	Phenol, isopropylated, phosphate (3:1)	225	Lepomis macrochirus	REACH Registration D
115-86-6	Triphenyl phosphate	144	Oryzias latipes	REACH Registration D

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

The product has not been tested.

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**12.6. Endocrine disrupting properties**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. 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

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**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):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L  
Excepted quantity: E0  
Transport category: 2  
Tunnel 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):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L  
Excepted quantity: E0

**Marine transport (IMDG)**

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**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
 Hazard label: 2.1



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  
**14.3. Transport hazard class(es):** 2.1  
**14.4. 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: 203  
 IATA-max. quantity - Passenger: 75 kg  
 IATA-packing instructions - Cargo: 203  
 IATA-max. quantity - Cargo: 150 kg

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Warning: Flammable gases.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**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

2010/75/EU (VOC): 87,962 % (602,537 g/l)

2004/42/EC (VOC): 88,341 % (605,138 g/l)

Information according to 2012/18/EU (SEVESO III): P3a FLAMMABLE AEROSOLS

**Additional information**

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC, 2008/47/EC

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Aerosol directive (75/324/EEC).

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).  
Water hazard class (D): 2 - obviously hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information**

**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)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
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  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

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

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Asp. Tox. 1; H304	Calculation method
Aquatic Chronic 3; H412	Calculation method

**Relevant H and EUH statements (number and full text)**

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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