

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 29/11/2022 Version: 10.0

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

#### **1.1. Product identifier**

Product form	: Mixture
Trade name	: Release Agent R5
Product code	: R5
Vaporizer	: Aerosol

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

#### 1.2.1. Relevant identified uses

Main use category Use of the substance/mixture : Professional use,Industrial use: Release agent

### 1.2.2. Uses advised against

#### No additional information available

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

Alchemie Ltd Warwick Road Kineton Warwick, CV35 0HU United Kingdom T +44 (0) 1926 641 600 sales@alchemie.com - www.alchemie.com

#### 1.4. Emergency telephone number

Emergency number

: +44 (0) 1926 641 600 Office hours only (08:30 - 17:00)

## **SECTION 2: Hazards identification**

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

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

Aerosol, Category 1	H222;H229
Skin corrosion/irritation, Category 2	H315
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411
Full text of H- and EUH-statements: see section 16	

#### Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause drowsiness or dizziness. Causes skin irritation. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC)	) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS02 GHS07 GHS09
Signal word (CLP)	: Danger
Contains	: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; Hydrocarbons, C7-C9, n-alkanes,
	isoalkanes, cyclics; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane;
	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics; butan-2-ol

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Hazard statements (CLP)	: H222 - Extremely flammable aerosol.
	H229 - Pressurised container: May burst if heated.
	H315 - Causes skin irritation.
	H336 - May cause drowsiness or dizziness.
	H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: 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 dust/fume/gas/mist/vapours/spray.
	P391 - Collect spillage.
	P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C, 122
	°F.

### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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

## 3.1. Substances

#### Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	CAS-No.: 64742-49-0 EC-No.: 927-510-4 EC Index-No.: 601-008-00-2 REACH-no: 01-2119475515- 33	25 – 50	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	CAS-No.: 64742-49-0 EC-No.: 920-750-0 REACH-no: 01-2119473851- 33	1 – 25	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	CAS-No.: 64742-49-0 EC-No.: 921-024-6 REACH-no: 01-2119475514- 35	1 – 25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS-No.: 64742-48-9 EC-No.: 927-241-2 REACH-no: 01-2119471843- 32	1 – 25	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
butan-2-ol	CAS-No.: 78-92-2 EC-No.: 201-158-5 EC Index-No.: 603-127-00-5	1 – 25	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H336 STOT SE 3, H335

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case. Full text of H- and EUH-statements: see section 16

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effect	cts, both acute and delayed
Symptoms/effects Symptoms/effects after skin contact	: May cause drowsiness or dizziness. : Irritation.

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	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the subst	tance or mixture
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	<ul> <li>Extremely flammable aerosol.</li> <li>Pressurised container: May burst if heated.</li> <li>Toxic fumes may be released.</li> </ul>
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective equ	ipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment	nt and cleaning up
For containment Methods for cleaning up Other information	<ul> <li>Collect spillage.</li> <li>Mechanically recover the product.</li> <li>Dispose of materials or solid residues at an authorized site.</li> </ul>
6.4. Reference to other sections	

For further information refer to section 13.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including a	ny incompatibilities
Storage conditions	: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

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

No additional information available

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

**Eye protection:** Safety glasses

8.2.2.2. Skin protection

**Skin and body protection:** Wear suitable protective clothing

Hand protection: Protective gloves

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

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

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

Physical state	: Liquid
Colour	: white.
Odour	: characteristic.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: > -42 °C Literature Reference
Flash point	: > -97 °C Literature Reference
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol.
Vapour pressure	: < 3000 hPa Literature Reference
Vapour pressure at 50°C	: < 7000 hPa Literature Reference
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Density	: 0.645 g/cm <sup>3</sup> (20°C)
Solubility	: Water: < 50 g/l (20°C)
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Pressurised container: May burst if heated.
Oxidising properties	: No data available
Lower explosive limit (LEL)	: 0.7 vol % Literature Reference
Upper explosive limit (UEL)	: 7 vol % Literature Reference

#### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

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

#### **10.2. Chemical stability**

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### **10.4. Conditions to avoid**

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 10.5. Incompatible materials

#### No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	
11.1 Information on toxicological effects	
Acute toxicity (dermal)	Not classified Not classified Not classified
Hydrocarbons, C7, n-alkanes, isoalkanes, cyc	lics (64742-49-0)
LD50 oral rat	> 5840 mg/kg
LD50 dermal rat	> 2800 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 23.3 mg/l/4h
Hydrocarbons, C7-C9, n-alkanes, isoalkanes,	cyclics (64742-49-0)
LD50 oral rat	> 5840 mg/kg
LD50 dermal rat	> 2800 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 23.3 mg/l/4h
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,	cyclics, <5% n-hexane (64742-49-0)
LD50 oral rat	> 5840 mg/kg
LD50 dermal rat	> 2800 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 25.2 mg/l/4h
Hydrocarbons, C9-C10, n-alkanes, isoalkanes	, cyclics, <2% aromatics (64742-48-9)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	≥ 3160 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat (Dust/Mist)	> 5.6 mg/l/4h
butan-2-ol (78-92-2)	
LD50 oral rat	2054 mg/kg Source: ECHA
LD50 dermal rat	> 2000 mg/kg Source: ECHA
	Causes skin irritation.
5	Not classified
	Not classified
0,	Not classified Not classified
	Not classified
	May cause drowsiness or dizziness.
Hydrocarbons, C7, n-alkanes, isoalkanes, cyc	

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Hydrocarbons, C7-C9, n-alkanes, isoalkanes,	cyclics (64742-49-0)
STOT-single exposure	May cause drowsiness or dizziness.
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,	cyclics, <5% n-hexane (64742-49-0)
STOT-single exposure	May cause drowsiness or dizziness.
Hydrocarbons, C9-C10, n-alkanes, isoalkanes	s, cyclics, <2% aromatics (64742-48-9)
STOT-single exposure	May cause drowsiness or dizziness.
butan-2-ol (78-92-2)	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
STOT-repeated exposure :	Not classified
Hydrocarbons, C7, n-alkanes, isoalkanes, cyo	clics (64742-49-0)
LOAEC (inhalation, rat, vapour, 90 days)	16.6 mg/l air Animal: rat, Animal sex: male
NOAEC (inhalation, rat, vapour, 90 days)	3.3 mg/l air Animal: rat, Animal sex: male
Hydrocarbons, C7-C9, n-alkanes, isoalkanes,	cyclics (64742-49-0)
NOAEC (inhalation, rat, vapour, 90 days)	24.3 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
Aspiration hazard :	Not classified
Release Agent R5	
Release Agent R5 Vaporizer	Aerosol
Vaporizer	
Vaporizer Hydrocarbons, C7, n-alkanes, isoalkanes, cyc	Clics (64742-49-0) 0.67 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'
Vaporizer <b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyc</b> Viscosity, kinematic	Clics (64742-49-0) 0.67 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'
Vaporizer Hydrocarbons, C7, n-alkanes, isoalkanes, cyc Viscosity, kinematic Hydrocarbons, C7-C9, n-alkanes, isoalkanes,	Clics (64742-49-0)           0.67 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'           cyclics (64742-49-0)
Vaporizer Hydrocarbons, C7, n-alkanes, isoalkanes, cyc Viscosity, kinematic Hydrocarbons, C7-C9, n-alkanes, isoalkanes, Viscosity, kinematic	clics (64742-49-0)         0.67 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'         cyclics (64742-49-0)         0.715 – 0.786 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)'         Yes
Vaporizer Hydrocarbons, C7, n-alkanes, isoalkanes, cyd Viscosity, kinematic Hydrocarbons, C7-C9, n-alkanes, isoalkanes, Viscosity, kinematic Hydrocarbon	clics (64742-49-0)         0.67 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'         cyclics (64742-49-0)         0.715 – 0.786 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)'         Yes
Vaporizer Hydrocarbons, C7, n-alkanes, isoalkanes, cyd Viscosity, kinematic Hydrocarbons, C7-C9, n-alkanes, isoalkanes, Viscosity, kinematic Hydrocarbon Hydrocarbons, C6-C7, n-alkanes, isoalkanes,	clics (64742-49-0)         0.67 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'         cyclics (64742-49-0)         0.715 – 0.786 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)'         Yes         cyclics, <5% n-hexane (64742-49-0)
Vaporizer Hydrocarbons, C7, n-alkanes, isoalkanes, cyd Viscosity, kinematic Hydrocarbons, C7-C9, n-alkanes, isoalkanes, Viscosity, kinematic Hydrocarbons, C6-C7, n-alkanes, isoalkanes, Viscosity, kinematic	clics (64742-49-0)         0.67 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'         cyclics (64742-49-0)         0.715 – 0.786 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)'         Yes         cyclics, <5% n-hexane (64742-49-0)
Vaporizer Hydrocarbons, C7, n-alkanes, isoalkanes, cyd Viscosity, kinematic Hydrocarbons, C7-C9, n-alkanes, isoalkanes, Viscosity, kinematic Hydrocarbon Hydrocarbons, C6-C7, n-alkanes, isoalkanes, Viscosity, kinematic Hydrocarbon	clics (64742-49-0)         0.67 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'         cyclics (64742-49-0)         0.715 – 0.786 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)'         Yes         cyclics, <5% n-hexane (64742-49-0)
Vaporizer Hydrocarbons, C7, n-alkanes, isoalkanes, cyd Viscosity, kinematic Hydrocarbons, C7-C9, n-alkanes, isoalkanes, Viscosity, kinematic Hydrocarbon Hydrocarbons, C6-C7, n-alkanes, isoalkanes, Viscosity, kinematic Hydrocarbon Hydrocarbons, C9-C10, n-alkanes, isoalkanes	cyclics (64742-49-0)         0.67 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'         cyclics (64742-49-0)         0.715 – 0.786 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)'         Yes         cyclics, <5% n-hexane (64742-49-0)
Vaporizer Hydrocarbons, C7, n-alkanes, isoalkanes, cyd Viscosity, kinematic Hydrocarbons, C7-C9, n-alkanes, isoalkanes, Viscosity, kinematic Hydrocarbon Hydrocarbons, C6-C7, n-alkanes, isoalkanes, Viscosity, kinematic Hydrocarbons, C9-C10, n-alkanes, isoalkanes Viscosity, kinematic	clics (64742-49-0)         0.67 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'         cyclics (64742-49-0)         0.715 – 0.786 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)'         Yes         cyclics, <5% n-hexane (64742-49-0)
Vaporizer Hydrocarbons, C7, n-alkanes, isoalkanes, cyo Viscosity, kinematic Hydrocarbons, C7-C9, n-alkanes, isoalkanes, Viscosity, kinematic Hydrocarbon Hydrocarbons, C6-C7, n-alkanes, isoalkanes, Viscosity, kinematic Hydrocarbon Hydrocarbons, C9-C10, n-alkanes, isoalkanes Viscosity, kinematic Hydrocarbon	clics (64742-49-0)         0.67 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'         cyclics (64742-49-0)         0.715 – 0.786 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)'         Yes         cyclics, <5% n-hexane (64742-49-0)

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general Hazardous to the aquatic environment, short–term (acute)	: Toxic to aquatic life with long lasting effects. : Not classified
Hazardous to the aquatic environment, long–term (chronic) Not rapidly degradable	: Toxic to aquatic life with long lasting effects.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)		
LC50 - Fish [1]	> 13.4 mg/l Oncorhynchus mykiss (Rainbow trout)	
EC50 - Crustacea [1]	3 mg/l Daphnia magna (Water flea)	
ErC50 algae	10 – 30 mg/l Pseudokirchneriella subcapitata	
LOEC (chronic)	0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
Hydrocarbons, C7-C9, n-alkanes, isoalkanes,	cyclics (64742-49-0)	
LC50 - Fish [1]	3 – 10 mg/l Oncorhynchus mykiss (Rainbow trout)	
EC50 - Crustacea [1]	4.6 – 10 mg/l Daphnia magna (Water flea)	
ErC50 algae	10 – 30 mg/l Pseudokirchneriella subcapitata	
LOEC (chronic)	0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,	cyclics, <5% n-hexane (64742-49-0)	
LC50 - Fish [1]	11.4 mg/l Oncorhynchus mykiss (Rainbow trout)	
EC50 - Crustacea [1]	3 mg/l Daphnia magna (Water flea)	
ErC50 algae	30 – 100 mg/l Pseudokirchneriella subcapitata	
LOEC (chronic)	0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9)		
LC50 - Fish [1]	10 – 30 mg/l Oncorhynchus mykiss (Rainbow trout)	
EC50 - Crustacea [1]	22 – 46 mg/l Daphnia magna (Water flea)	
ErC50 algae	> 1000 mg/l Pseudokirchneriella subcapitata	
butan-2-ol (78-92-2)		
LC50 - Fish [1]	2993 mg/l Test organisms (species): Pimephales promelas	
EC50 - Crustacea [1]	308 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	1972 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
EC50 96h - Algae [1]	2029 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	

### 12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential		
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)		
Partition coefficient n-octanol/water (Log Pow) 4.66 Source: ICSC		
butan-2-ol (78-92-2)		
Partition coefficient n-octanol/water (Log Pow) 0.6 Source: ICSC		
12.4. Mobility in soil		

No additional information available

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 12.5. Results of PBT and vPvB assessment

#### No additional information available

**12.6. Other adverse effects** 

No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods European List of Waste (LoW) code	<ul> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>16 05 04* - gases in pressure containers (including halons) containing dangerous substances</li> <li>15 01 11* - metallic packaging containing a dangerous solid porous matrix (e.g. asbestos), including empty pressure containers</li> </ul>
HP Code	<ul> <li>HP3 - "Flammable:" <ul> <li>flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point &gt; 55 °C and ≤ 75 °C;</li> <li>flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;</li> <li>flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;</li> <li>flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;</li> <li>water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;</li> <li>other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.</li> <li>HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.</li> <li>HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.</li> <li>HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment</li> </ul> </li> </ul>

# SECTION 14: Transport information

### In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number	·		·	·
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shippin	g name		<u>.</u>	
AEROSOLS ((Naphtha (petroleum), hydrotreated, light))	AEROSOLS ((Naphtha (petroleum), hydrotreated, light))	Aerosols, flammable ((Naphtha (petroleum), hydrotreated, light))	AEROSOLS ((Naphtha (petroleum), hydrotreated, light))	AEROSOLS ((Naphtha (petroleum), hydrotreated, light))
Transport document descr	iption			
UN 1950 AEROSOLS ((Naphtha (petroleum), hydrotreated, light)), 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS ((Naphtha (petroleum), hydrotreated, light)), 2.1, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 1950 Aerosols, flammable ((Naphtha (petroleum), hydrotreated, light)), 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS ((Naphtha (petroleum), hydrotreated, light)), 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS ((Naphtha (petroleum), hydrotreated, light)), 2.1, ENVIRONMENTALLY HAZARDOUS

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ADR	IMDG	ΙΑΤΑ	ADN	RID
ADIX			ADN	
14.3. Transport hazard o	class(es)			
2.1	2.1	2.1	2.1	2.1
14.4. Packing group			-	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary informatio	n available		I	
14.6. Special precaution	s for user			
Overland transport				
Classification code (ADR)	: 5F			
Special provisions (ADR)	: 190	), 327, 344, 625		
Limited quantities (ADR)	: 11			

Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207, LP200
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading	: CV9, CV12
and handling (ADR)	
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D
Transport by sea	
Special provisions (IMDG)	: 63, 190, 277, 327, 344, 381, 959
Packing instructions (IMDG)	: P207, LP200
Special packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	F-D
EmS-No. (Spillage)	: S-U
Stowage category (IMDG)	: None
Stowage and handling (IMDG)	: SW1, SW22
Segregation (IMDG)	: SG69
Air transport	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L
Inland waterway transport	
Classification code (ADN)	: 5F
Special provisions (ADN)	: 190, 327, 344, 625
Limited quantities (ADN)	: 1L

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01, VE04
Number of blue cones/lights (ADN)	: 1
Rail transport	
Classification code (RID)	: 5F
Special provisions (RID)	: 190, 327, 344, 625
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P207, LP200
Special packing provisions (RID)	: PP87, RR6, L2
Mixed packing provisions (RID)	: MP9
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W14
Special provisions for carriage - Loading, unloading	: CW9, CW12
and handling (RID)	
Colis express (express parcels) (RID)	: CE2
Hazard identification number (RID)	: 23

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

#### Not applicable

### SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

# SECTION 16: Other information

SECTION 16: Other information			
Abbreviations and	acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		
EN	European Standard		
IARC	International Agency for Research on Cancer		
ΙΑΤΑ	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
РВТ	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
VOC	Volatile Organic Compounds		
CAS-No.	Chemical Abstract Service number		
N.O.S.	Not Otherwise Specified		
vPvB	Very Persistent and Very Bioaccumulative		
ED	Endocrine disrupting properties		
<u> </u>	1		

Full text of H- and EUH-statements:	
Aquatic Chronic 2         Hazardous to the aquatic environment – Chronic Hazard, Category 2	

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Full text of H- and EUH-statements:		
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
H222	Extremely flammable aerosol.	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H229	Pressurised container: May burst if heated.	
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.