

## Safety Data Sheet

According to Regulation EC No. 1907/2006

### Spray Adhesive GP INFUSION 2

Date of issue/Date of revision: 24.03.2020

en / GB - Version 1.0

#### 1. Identification of the substance/preparation and of the company/undertaking

**1.1 Identification of the substance or preparation:**

**Spray Adhesive GP INFUSION 2**

**1.2 Use of the substance/preparation:**

Adhesive

**1.3 Company/undertaking identification**

Company name:	Gößl + Pfaff GmbH
Street:	Münchener Str. 13
Place:	85123 Karlskron/Brautlach
Telephone:	+49 (0) 8450 / 932-0
Fax.:	+49 (0) 8450 / 932-13
Contact person:	Management: Mr. Gößl, Mr. Pfaff
E-Mail:	info@goessl-pfaff.de
Internet:	<a href="http://www.goessl-pfaff.de">www.goessl-pfaff.de</a>
Responsible Department:	Management

**1.4 Emergency telephone**

**Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0) 6132-84463**

#### 2. Hazards identification

**2.1 Classification of the substance or mixture:**
**Classification according to Regulation (EC) No 1272/2008 (CLP)**

Aerosol 1; H222	Extremely flammable aerosol.
Aerosol 1; H229	Pressurised container: May burst if heated.
Asp. Tox. 1; H304	May be fatal if swallowed and enters airways.
Skin Irrit. 2; H315	Causes skin irritation.
STOT SE 3; H336	May cause drowsiness or dizziness.
Aquatic Chronic 2; H411	Toxic to aquatic life with long lasting effects.

**2.2. Label elements:**
**Labelling according to Regulation (EC) No 1272/2008 [CLP]**


**Signal word:** Danger

**Hazard statements:**

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.
EUH208	Contains tris(nonylphenyl) phosphite. May produce an allergic reaction.

**Precautionary statements:**

P102	Keep out of reach of children.
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.
P273	Avoid release to the environment.
P302 + P352 + P362 + P364	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.

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P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with national regulation.

Contains: hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (CAS: 92128-66-0, EC: 921-024-6)

#### Special provisions

Special hazards are not known or expected.

#### 2.3 Other hazards:

No data available.

### 3. Composition/information on ingredients

#### 3.2 Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific concentration limits	REACH Registration number
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	92128-66-0 921-024-6 -	10-50	Flam. Liq. 2; H225 Asp. Tox 1; H304 Skin Irrit. 2; H315 STOT einm. 3; H336 Aquatic Chronic 2; H411		01-2119475514-35
Dimethylether	115-10-6 204-065-8 603-019-00-8	10-25	Flam. Gas 1; H220 Press. Gas; H280		01-2119472128-37
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0 927-510-4 -	10-25	Flam. Liq. 2; H225 Asp. Tox 1; H304 Skin Irrit. 2; H315 STOT SE. 3; H336 Aquatic Chronic 2; H411		01-2119475515-33
Butane [C]	106-97-8 203-448-7 601-004-00-0	10-25	Flam. Gas 1; H220 Press. Gas; H280		01-2119474691-32
Butanone	78-93-3 201-159-0 606-002-00-3	<10	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE. 3; H336 EUH066		01-2119457290-43
Pentane [C]	109-66-0 203-692-4 601-006-00-1	<2,5	Flam. Liq. 2; H225 Asp. Tox. 1; H304 STOT SE. 3; H336 Aquatic Chronic 2; H411 EUH066		
2-Methylbutane	78-78-4 201-142-8 601-085-00-2	<1	Flam. Fl. 1; H224 Asp. Tox. 1; H304 STOT SE. 3; H336 Aquatic Chronic 2; H411 EUH066		
Tris(nonylphenyl)phosphite	26523-78-4 247-759-6 015-202-00-4	<1	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410		
n-Hexane	110-54-3 203-777-6 601-037-00-0	<1	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE. 3; H336 Repr. 2; H361f STOT RE. 2; H373 Aquatic Chronic 2; H411	STOT RE 2; H373: C ≥ 5%	

#### Notes for substances:

C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

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#### 4. First aid measures

##### 4.1. Description of first aid measures

###### General notes

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Never give anything by mouth to an unconscious person.

Place patient in recovery position and ensure airway patency.

###### Following inhalation

Remove patient to fresh air - move out of dangerous area. Keep at rest in a position comfortable for breathing.

If symptoms develop and persist, seek medical attention.

If breathing is irregular or respiratory arrest occurs provide artificial respiration.

Seek medical help immediately.

In case of unconsciousness bring patient into stable side position and seek medical attention.

###### Following skin contact

Take off all contaminated clothing.

Areas of the body that have come into contact with the product must be rinsed with water.

If symptoms develop and persist, seek medical attention.

Wash contaminated clothes and shoes before reuse.

###### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart.

If irritation persists, seek professional medical attention.

###### Following ingestion

Not likely.

Accidental ingestion: Rinse mouth thoroughly with water.

Do not induce vomiting!

Immediately consult a doctor.

Show the physician the safety data sheet or label.

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

###### Inhalation

Vapours may cause drowsiness and dizziness.

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

Coughing, sneezing, nasal discharge, labored breathing.

###### Skin contact

Irritating to the skin.

Itching, redness, pain.

May cause sensitisation by skin contact (itching, redness, rashes).

###### Eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

###### Ingestion

Not likely.

Accidental ingestion:

May cause abdominal discomfort.

May cause nausea/vomiting and diarrhea.

Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

May be fatal if swallowed and enters airways.

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

Treat symptomatically.

#### 5. Fire-fighting measures

##### 5.1 Extinguishing media:

###### Suitable extinguishing media:

Carbon dioxide (CO<sub>2</sub>).

Fire extinguishing powder.

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Water spray.

Alcohol-resistant foam. Extinguish large fires with water spray or alcohol-resistant foam.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

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

##### Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

In the event of fire the following can be generated:

carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>). Various hydrocarbons.

Aldehydes. Soot.

#### 5.3. Advice for firefighters

##### Protective actions

In case of fire or heating do not breathe fumes/vapours. Vapours can form explosive mixtures with air. Prolonged heating can cause an explosion. In case of fire aerosols can explode and be propelled to considerable distances in different directions. Cool containers at risk with water spray. If possible remove containers from endangered area. No action shall be taken involving any personal risk or without suitable training.

##### Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

##### Additional information

Contaminated extinguishing agents must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

## 6. Accidental release measures

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

#### For non-emergency personnel

##### Protective equipment

Use personal protective equipment (Section 8).

##### Emergency procedures

Ensure adequate ventilation.

Keep away from sources of ignition and/or heat; No smoking!

Evacuate the danger zone.

Prevent access to unprotected personnel.

Prevent access to unauthorised personnel.

Avoid contact with skin, eyes and clothing.

Do not breathe vapour or mist.

#### For emergency responders

Use personal protective equipment.

### 6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

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

#### For containment

Stem the spill if this does not pose risks.

#### For cleaning up

Prevent release into the sewer, water, basements or confined areas.

Collect the spray cans and hand them over to an authorized waste disposal contractor.

Release of liquid because of damaged aerosol can (release of large quantities):

In case of bigger spill, dam the spillage, pump the liquid into appropriate labelled containers, absorb a residue with

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absorbent material and dispose of according to local regulations.  
Do not absorb spillage with sawdust or other combustible material.  
Dispose in accordance with applicable regulations (see Section 13).

#### 6.3.3. Other information

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#### 6.4. Reference to other sections

See also Sections 8 and 13.

## 7. Handling and storage

### 7.1 Precautions for safe handling:

#### 7.1.1. Protective measures

##### Measures to prevent fire

Ensure adequate ventilation.

Protect from open fire and other sources of ignition or heat.

Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use.

Vapours and air form explosive mixtures.

Take precautionary measures against static discharges.

Use spark-proof tools.

##### Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

##### Measures to protect the environment

Avoid release to the environment.

##### Advice on general occupational hygiene

Refer to instructions on label and regulations for safety and health at work.

Wear suitable protective equipment; see Section 8.

Consider measures required in Section 8 of this safety data sheet.

Use good personal hygiene practices – wash hands at breaks and when done working with material.

Do not eat, drink or smoke while working.

Avoid contact with skin, eyes and clothes.

Do not breathe vapours/mist.

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

#### Technical measures and storage conditions

Store in accordance with local regulations.

Keep in cool and well ventilated area.

Keep in well closed containers.

Keep away from sources of ignition - no smoking.

Protect against heat and direct sunlight.

Keep away from oxidising substances.

Keep away from food, drink and animal feeding stuffs.

#### Packaging materials

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#### Requirements for storage rooms and vessels

Do not store in unlabelled containers.

#### 7.2.4. Storage class

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#### 7.2.5. Further information on storage conditions

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

##### Recommendations

-

##### Industrial sector specific solutions

-

### 8. Exposure controls/personal protection

#### 8.1 Control parameters:

##### Occupational exposure limit values

Name	CAS	Limit values		Short-term exp. limit	Remarks	Biological Tolerance Values
		ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>			
Dimethyl ether	115-10-6	400	766	500	958	
n-Hexane	110-54-3	20	72			
Isopentane	78-78-4	600	1800			
Pentane	109-66-0	600	1800			
Butane	106-97-8	1.450	750	1810	Carc. (only applies if Butane contains more than 0.1% of buta-1,3-diene)	
Butan-2-one (methyl ethyl ketone)	200	600	300	899	Sk, BMGV	70 µmol butan-2-one/L in urine - Post shift

##### Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

##### DNEL/DMEL values

###### For components

Name	Type	Exposure route	Exposure frequency	Value
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (92128-66-0)	Worker	Inhalation	Long-term (systemic effects)	2.035 mg/m <sup>3</sup>
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (92128-66-0)	Worker	Dermal	Long-term (systemic effects)	773 mg/kg Körpergewicht/Tag
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (92128-66-0)	Consumer	Inhalation	Long-term (systemic effects)	608 mg/m <sup>3</sup>
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (92128-66-0)	Consumer	Dermal	Long-term (systemic effects)	699 mg/kg Körpergewicht/Tag
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (92128-66-0)	Consumer	Oral	Long-term (systemic effects)	699 mg/kg Körpergewicht/Tag
dimethyl ether (115-10-6)	Worker	Inhalation	Long-term (systemic effects)	1.894 mg/m <sup>3</sup>
dimethyl ether (115-10-6)	Consumer	Inhalation	Long-term (systemic effects)	471 mg/m <sup>3</sup>
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Worker	Inhalation	Long-term (systemic effects)	2.085 mg/m <sup>3</sup>
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Worker	Dermal	Long-term (systemic effects)	300 mg/kg Körpergewicht/Tag
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Consumer	Inhalation	Long-term (systemic effects)	447 mg/m <sup>3</sup>
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Consumer	Dermal	Long-term (systemic effects)	149 mg/kg Körpergewicht/Tag
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Consumer	Oral	Long-term (systemic effects)	149 mg/kg Körpergewicht/Tag

##### PNEC values

###### For components

Name	Exposure route	Value	Remark
Dimethylether (115-10-6)	Fresh water	0,155 mg/L	
Dimethylether (115-10-6)	Water (intermittent release)	1,549 mg/L	Fresh water
Dimethylether (115-10-6)	Marine water	0,016 mg/L	
Dimethylether (115-10-6)	Water treatment plant	160 mg/L	
Dimethylether (115-10-6)	Fresh water sediment	0,681 mg/kg	Dry weight
Dimethylether (115-10-6)	Marine water sediment	0,069 mg/kg	Dry weight
Dimethylether (115-10-6)	Soil	0,045 mg/kg	Dry weight

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#### 8.2. Exposure controls

##### Appropriate engineering control

##### Substance/mixture related measures to prevent exposure during identified uses

Handle in accordance with good industrial hygiene and safety practice. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Do not breathe vapours/aerosols. Keep away from foodstuffs, beverages and feed. If technical measures to reduce workers' exposure are not sufficient, and the limit values of hazardous substances in the air are exceeded, it is necessary to use personal protective equipment.

##### Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

##### Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

##### Personal protective equipment

##### Eye and face protection

Safety glasses with side protection (EN 166).

##### Hand protection

Protective gloves (EN 374).

##### Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

##### Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. If the concentration limit values are exceeded, it is necessary to wear appropriate respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

##### Thermal hazards

-

##### Environmental exposure controls

##### Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

## 9. Physical and chemical properties

### 9.1 Information on basis physical and chemical properties:

Physical state	Liquid; aerosol
Colour	Colourless, clear-milky
Odour	No information.
pH	No information.
Melting point/freezing point	No information.
Initial boiling point/boiling range	No information.
Flash point	No information.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Explosion limits	1,5 – 8,5 vol % (Butane) 3,3 – 26,2 vol % (Dimethylether)
Vapour pressure	< 70 hPa at 20 °C
Vapour density	No information.
Density	0,736 kg/L bei 20 °C (data refers tot he liquid portion of the product)
Solubility	No information.
Partition coefficient	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	No information.
Explosive properties	No information.
Oxidising properties	No information.

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#### 9.3 Other information

Weight organic solvent 627 g/l (VOC)  
91 % (VOC)

#### 10. Stability and reactivity

##### 10.1. Reactivity

Stable under recommended transport or storage conditions.

##### 10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

##### 10.3. Possibility of hazardous reactions

The product is stable under recommended storage and handling conditions.

##### 10.4. Conditions to avoid

Avoid all possible sources of ignition (spark or flame).  
Do not expose to heat and direct sunlight. Do not store above 50°C.

##### 10.5. Incompatible materials

Oxidants.

##### 10.6. Hazardous decomposition products

In case of fire/explosion vapours/gases that pose a health hazard are released.

#### 11. Toxicological information

##### 11.1. Information on toxicological effects

###### Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n- hexane (92128-66-0)	Oral	LD50	Rat		> 2.000 mg/kg		
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n- hexane (92128-66-0)	Dermal	LD50	Rabbit		> 2.000 mg/kg		
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n- hexane (92128-66-0)	Inhalation (vapours)	LC50	Rat	4 h	> 20 mg/l		
Dimethylether (115-10-6)	Inhalation (Gases)	LC50	Rat	4 h	309 mg/l		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Dermal	LD50	Rat	24 h	> 2.920 mg/kg body weight		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Oral	LD50	Rat		> 5.840 mg/kg body weight		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Inhalation (vapours)	LC50	Rat	4 h	> 23.300 mg/m <sup>3</sup>	OECD 403	
Butanone (78-93-3)	Oral	LD50	Rat		> 2.000 mg/kg		
Butanone (78-93-3)	Dermal	LD50	Rabbit		> 2.000 mg/kg		
Pentane (109-66-0)	Oral	LD50	Rat		> 2.000 mg/kg		Isopentene
Pentane (109-66-0)	Oral	LD50	Rat		> 2.000 mg/kg		
Pentane (109-66-0)	Dermal	LD50			> 2.000 mg/kg		
Pentane (109-66-0)	Inhalation (vapours)	LC50	Rat	4 h	> 5 mg/l		

**Additional information:** The product is not classified for acute toxicity.

###### Skin corrosion/irritation

Name	Species	Time	Result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)			Irritating		

**Additional information:** Causes skin irritation.



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#### Serious eye damage/irritation

Name	Species	Time	Result	Method	Remark
Dimethylether (115-10-6)			May cause frostbite.		
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)			Not classified.		
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)			Contact with eyes may cause irritation.		

**Additional information:** The product is not classified as an irritant to the eyes.

#### Respiratory or skin sensitisation

Name	Exposure route	Species	Time	Result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)				Not classified.		

**Additional information:** The product is not classified as sensitising. It contains at least one ingredient that can cause sensitisation. Can cause allergic reaction.

#### Germ cell mutagenicity

Name	Type	Species	Time	Result	Method	Remark
Dimethylether (115-10-6)				The chemical is not classified as mutagenic.		
Dimethylether (115-10-6)	in-vitro mutagenicity			Negative.	OECD 471	Ames test
Dimethylether (115-10-6)	in-vitro mutagenicity	Human (lymphocytes)		Negative.	Zygotenetic Test	EOCD 473
Dimethylether (115-10-6)	in-vitro mutagenicity	Drosophila melanogaster		Negative.	OECD 477	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Genotoxicity			Negative.		

#### Carcinogenicity

Name	Exposure route	Type	Species	Time	Value	Result	Method	Remark
Dimethylether (115-10-6)	Inhalation (vapours)	NOAEL	Rat	2 years	47 mg/l	Animal testing did not show any carcinogenic effects.	OECD 453	
Dimethylether (115-10-6)						Substance is not classified as carcinogenic.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)						Substance is not classified as carcinogenic.		

#### Reproductive toxicity

Name	Reproductive Toxicity Type	Type	Species	Time	Value	Result	Method	Remark
Dimethylether (115-10-6)	Reproductive toxicity		Rat		47 mg/L	Animal testing did not show any effects on fertility.	OECD 452	Inhalation
Dimethylether (115-10-6)	Maternal toxicity	NOAEL	Rat		5.000 ppm		OECD 414	Inhalation
Dimethylether (115-10-6)	Teratogenicity	NOAEL	Rat		40.000 ppm		OECD 414	Inhalation
Dimethylether (115-10-6)	Developmental toxicity	NOAEL	Rat		40.000 ppm		OECD 414	Inhalation
Dimethylether (115-10-6)	-	NOAEL	Rat		20.000 ppm		OECD 414	Inhalation (vapour), embryo-fetal development
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Reproductive toxicity		Rat			The results of animal studies gave no indication of a fertility impairing effect.		
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Developmental toxicity		Rat			Did not show teratogenic effects in animal experiments.		
n-Hexane (110-54-3)	Reproductive toxicity					Suspected of damaging fertility.		

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#### Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

#### STOT-single exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Inhalation	-					May cause effects on the central nervous system.		high vapours concentrations
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Inhalation	-					Symptoms: nausea, unconsciousness.		high vapours concentrations
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Inhalation	-					Symptoms: mucous membrane irritation.		high vapours concentrations
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Inhalation	-					May cause respiratory irritation.		high vapours concentrations
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Oral	-					May cause irritation of the digestive tract.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	-	-					May cause drowsiness or dizziness.		

**Additional information:** May cause drowsiness or dizziness.

#### STOT-repeated exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
Dimethylether (115-10-6)	Repeated dose toxicity	NOEL	Rat	2 years		47 mg/L		OECD 452	Inhalation

**Additional information:** STOT RE (repeated exposure): Not classified.

#### Aspiration hazard

Name	Result	Method	Remark
Dimethylether (115-10-6)	Aspiration hazard: Not Classified.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Aspiration into the lungs can cause lung damage.		The exposed person should be kept under medical surveillance for 48 hours.
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	May be fatal if swallowed and enters airways.		

**Additional information:** May be fatal if swallowed and enters airways.

## 12. Ecological information

### 12.1 Toxicity

#### Acute (short-term) toxicity

#### For components

Substance (CAS)	Type	Value	Exposure time	Species	Organism	Method	Remark
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (92128-66-0)	LC50	1–10 mg/L		Fish			
	EC50	10–100 mg/L		Aquatic plants			
Dimethylether (115-10-6)	LC50	> 4,1 mg/L	96 h	Fish	Poecilia reticulata		Semi-static system
	EC50	> 4,4 mg/L	48 h	Crustacea	Daphnia magna		Static test
	LC50	755,5 mg/L	48 h	Crustacea	Daphnia	ECOSAR	
	EC50	154,9 mg/L	96 h	Algae		ECOSAR	
	EC10	> 1.600 mg/L		Bacteria	Pseudomonas putida		Static test
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	ErL50	10–30 mg/L	72 h	Algae	Pseudokirchneriella subcapitata	OECD 201	
	EbL50	10–30 mg/L	72 h	Algae	Pseudokirchneriella subcapitata	OECD 201	

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Butatone (78-93-3)	LC50	> 100 mg/L	48 h	Fish	Leusiscus idus		
	EC50	> 100 mg/L	48 h	Crustacea	Daphnia		

#### Chronic (long-term) toxicity

##### For components

Substance (CAS)	Type	Value	Exposure time	Species	Organism	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	NOELR	1 mg/L	21 days	Crustacea	Daphnia magna	OECD 211	
	NOELR	1,53 mg/L	21 days	Fish	Oncorhynchus mykiss	QSAR Petrottox	

#### 12.2. Persistence and degradability

##### Abiotic degradation, physical- and photo-chemical elimination

No information.

##### Biodegradation

##### For components

Substance (CAS)	Type	Rate	Time	Evaluation	Method	Remark
Dimethylether (115-10-6)	Aerobic	5 %	28 days	Not readily biodegradable.	OECD 301 D	Activated sludge
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Biodegradability	98 %	28 days	Readily biodegradable.	OECD 301 F	

#### 12.3. Bioaccumulative potential

##### Partition coefficient

No information.

##### Bioconcentration factor (BCF)

No information.

#### 12.4. Mobility in soil

##### Known or predicted distribution to environmental compartments

No information.

##### Surface tension

No information.

##### Adsorption/Desorption

##### For components

Substance (CAS)	Type	Criterion	Value	Evaluation	Method	Remark
Dimethylether (115-10-6)	Soil			Moderate mobility in soil		

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

No evaluation.

#### 12.6. Other adverse effects

No information.

#### 12.7. Additional information

##### For product

Toxic to aquatic life with long lasting effects.

Water hazard class (WGK): 3 (Self-assessment), very hazardous for water. Do not allow to reach ground water, water courses or sewage system.

##### For components

##### Substance: dimethyl ether

Bioaccumulation is not expected.

This substance is not considered to be persistent, bioaccumulative and toxic (PBT).

This substance is not considered to be very persistent and very bioaccumulative (vPvB).

##### Substance: hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This substance is not considered to be persistent, bioaccumulative and toxic (PBT).

This substance is not considered to be very persistent and very bioaccumulative (vPvB).

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**13. Disposal considerations****13.1. Waste treatment methods****Product / Packaging disposal****Waste chemical**

Avoid release to the environment.

Dispose of in accordance with applicable waste disposal regulation.

Disposal must be made according to official regulations: deliver it to authorised collector/ remover/ transformer of hazardous waste.

Product and container must be disposed of safely.

**Waste codes / waste designations according to LoW**

16 05 04\* - gases in pressure containers (including halons) containing dangerous substances

**Packaging**

Uncleaned containers should not be perforated, cut or welded.

Pressurized container. Do not pierce or burn, even after use.

Dispose of in accordance with applicable waste disposal regulation.

Deliver completely emptied containers to approved waste disposal authorities.

**Waste codes / waste designations according to LoW**

15 01 11\* - metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

**Waste treatment-relevant information**

-

**Sewage disposal-relevant information**

-

**Other disposal recommendations**

-

**14. Transport information****14.1. UN number**

UN 1950

**14.2. UN proper shipping name**

AEROSOLS

**IMDG name**

AEROSOLS (hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane 2

**14.3. Transport hazard class(es)****14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**Additional labeling:  
ENVIRONMENTALLY HAZARDOUS  
MARINE POLLUTANT**IMDG****14.6. Special precautions for user****Limited quantity**

1 L

**Tunnel restriction code**

(D)

**IMDG EmS**

F-D,S-U

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

Goods may not be carried in bulk in bulk containers, containers or vehicles.

**15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:**

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

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#### Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

#### 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### 16. Other information

##### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
 ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways CEN - European Committee for Standardisation  
 C&L - Classification and Labelling  
 CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
 CAS# - Chemical Abstracts Service number  
 CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
 CSA - Chemical Safety Assessment  
 CSR - Chemical Safety Report  
 DMEL - Derived Minimal Effect Level  
 DNEL - Derived No Effect Level  
 DPD - Dangerous Preparations Directive 1999/45/EC  
 DSD - Dangerous Substances Directive 67/548/EEC  
 DU - Downstream User  
 EC - European Community  
 ECHA - European Chemicals Agency  
 EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
 EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
 EEC - European Economic Community  
 EINECS - European Inventory of Existing Commercial Substances  
 ELINCS - European List of notified Chemical Substances  
 EN - European Standard  
 EQS - Environmental Quality Standard  
 EU - European Union  
 Euphrac - European Phrase Catalogue  
 EWC - European Waste Catalogue (replaced by LoW – see below)  
 GES - Generic Exposure Scenario  
 GHS - Globally Harmonized System  
 IATA - International Air Transport Association  
 ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
 IMDG - International Maritime Dangerous Goods  
 IMSBC - International Maritime Solid Bulk Cargoes  
 IT - Information Technology  
 IUCLID - International Uniform Chemical Information Database  
 IUPAC - International Union for Pure Applied Chemistry  
 JRC - Joint Research Centre  
 Kow - octanol-water partition coefficient  
 LC50 - Lethal Concentration to 50 % of a test population  
 LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
 LE - Legal Entity  
 LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
 LR - Lead Registrant  
 M/I - Manufacturer / Importer  
 MS - Member States  
 MSDS - Material Safety Data Sheet  
 OC - Operational Conditions  
 OECD - Organization for Economic Co-operation and Development  
 OEL - Occupational Exposure Limit  
 OJ - Official Journal  
 OR - Only Representative

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OSHA - European Agency for Safety and Health at work  
 PBT - Persistent, Bioaccumulative and Toxic substance  
 PEC - Predicted Effect Concentration  
 PNEC(s) - Predicted No Effect Concentration(s)  
 PPE - Personal Protection Equipment  
 (Q)SAR - Qualitative Structure Activity Relationship  
 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
 RIP - REACH Implementation Project  
 RMM - Risk Management Measure  
 SCBA - Self-Contained Breathing Apparatus  
 SDS - Safety data sheet  
 SIEF - Substance Information Exchange Forum  
 SME - Small and Medium sized Enterprises  
 STOT - Specific Target Organ Toxicity  
 (STOT) RE - Repeated Exposure  
 (STOT) SE - Single Exposure  
 SVHC - Substances of Very High Concern  
 UN - United Nations  
 vPvB - Very Persistent and Very Bioaccumulative

#### List of relevant H phrases

H220	Extremely flammable gas.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
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.

The information of this MSDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.