

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **8080 Sprayplast komp B**

Creation date: **23.2.2017** · Revision: **3.7.2019** · Version: **1**

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name

8080 Sprayplast komp B



chemius.net/WHA04

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

Relevant identified uses

Professional repairs of car body.

Uses advised against

No information.

1.3. Details of the supplier of the safety data sheet

Manufacturer

SILCO, D.O.O.

Address: Šentrupert 5 a, 3303 Gomilsko, Slovenia

Phone: +386 3 703 3180

Fax: +386 3 703 3188

E-mail: n.cvilak@silco-automotive.com

Point of contact for safety info: Nejc Cvilak

1.4. Emergency telephone number

Emergency

112

Supplier

+386 3 703 3180

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Flam. Liq. 2; H225 Highly flammable liquid and vapour.

Org. Perox. CD; H242 Heating may cause a fire.

Skin Corr. 1B; H314 Causes severe skin burns and eye damage.

Eye Dam. 1; H318 Causes serious eye damage.

STOT SE 3; H335 May cause respiratory irritation.

STOT SE 3; H336 May cause drowsiness or dizziness.

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **8080 Sprayplast komp B**

Creation date: **23.2.2017** · Revision: **3.7.2019** · Version: **1**

2.2 Label elements

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



Signal word: **Danger**

H225 Highly flammable liquid and vapour.

H242 Heating may cause a fire.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P234 Keep only in original packaging.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P401 Store in accordance with regulations on separate storage and take into account the incompatibility of certain substances/mixtures (store away from dirt, rust, chemicals, especially reducing substances, acids, alkaline solutions, amines and heavy metal compounds such as accelerators, dessicatives, metal soaps).

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

2.2.2. Contains:

ethyl acetate (CAS: 141-78-6, EC: 205-500-4, Index: 607-022-00-5)

4-hydroxy-4-methylpentan-2-one (CAS: 123-42-2, EC: 204-626-7, Index: 603-016-00-1)

cyclohexanone, peroxide (CAS: 12262-58-7, EC: 235-527-7, Index: 617-010-00-1)

2.2.3. Special provisions

Special hazards are not known or expected.

2.3. Other hazards

Risk of serious damage to eyes.

Risk of fire on contact with combustible substances or other substances effective in promoting the decomposition reaction.

Fire propagating effect due to oxygen release.

Thermal decomposition at temperatures >50 °C (SADT).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

For mixtures see 3.2.

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **8080 Sprayplast komp B**

Creation date: **23.2.2017** · Revision: **3.7.2019** · Version: **1**

3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
ethyl acetate	141-78-6 205-500-4 607-022-00-5	50-100	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066		01-2119475103-46
4-hydroxy-4-methylpentan-2-one	123-42-2 204-626-7 603-016-00-1	10-25	Flam. Liq. 3; H226 Eye Irrit. 2; H319 STOT SE 3; H335	Eye Irrit. 2; H319: C ≥ 10 %	01-2119473975-21
Dimethyl phthalate	131-11-3 205-011-6 -	10-25	not classified		01-2119437229-36
cyclohexanone, peroxide	12262-58-7 235-527-7 617-010-00-1	10-25	Org. Perox. A; H240 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318		-

SECTION 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). Symptoms of poisoning may even occur after several hours; therefore medical observation is required at least 48 hours after the event. Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. Take off all contaminated clothing immediately.

Following inhalation

Remove patient to fresh air - move out of dangerous area. If difficulties with breathing do not stop, search for medical help. If breathing is difficult, give oxygen. If breathing is irregular or respiratory arrest occurs provide artificial respiration. In case of unconsciousness bring patient into stable side position and seek medical attention.

Following skin contact

Immediately remove contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. Immediately obtain professional medical help!

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Consult a physician immediately!

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Immediately consult a doctor.

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

Inhalation

Can cause irritation of respiratory system.
Coughing, sneezing, nasal discharge, labored breathing.
Vapours may cause drowsiness and dizziness.

Skin contact

Redness, ulcers, pain.

Eye contact

Corrosive effect. Risk of serious damage to eyes.
Discomfort or pain, excessive blinking, lacrimation and redness.

Ingestion

If ingested, causes severe burns of the mouth and throat, as well as perforation of the esophagus and stomach.

Product name: **8080 Sprayplast komp B**

Creation date: **23.2.2017** · Revision: **3.7.2019** · Version: 1

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

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SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂).

Fire extinguishing powder.

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

Unsuitable extinguishing media

Full water jet.

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. Substance accelerates combustion. May decompose explosively in absence of fire due to formation of vapour-air-mixture.

5.3. Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area.

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 firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8). In case of insufficient ventilation, use respiratory protection equipment.

Emergency procedures

Ensure adequate ventilation. Keep away sources of ignition. Prohibited to smoke! Prevent access to unprotected personnel.

Prevent access to unauthorised personnel. Avoid contact with skin and eyes. Do not breathe vapour or mist.

6.1.2. For emergency responders

Ensure adequate ventilation.

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

6.3.1. For containment

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Product name: **8080 Sprayplast komp B**

Creation date: **23.2.2017** · Revision: **3.7.2019** · Version: **1**

6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Container with waste must not be tightly closed.

6.3.3. Other information

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6.4. Reference to other sections

See also Sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Protective measures

Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Protect from open fire and other sources of ignition or heat. Vapours and air form explosive mixtures. Use explosively safe equipment (ventilators, lighting, working instruments and devices,...); Restrict the quantity stored at the work place. Resistant to inert materials only. Do not mix with accelerators or reducing agents. Avoid shock and friction. Thermal decomposition with temperatures above 50 °C under formation of explosive vapours/gases. Fire propagating effect due to oxygen release. Keep away from incompatible substances/material. Keep apart from dirt, rust, chemicals, especially reducing substances, acids, alkaline solutions, amines and heavy metal compounds such as accelerator, dessicative, metal soaps.

Measures to prevent aerosol and dust generation

Ensure good ventilation and extraction.

Measures to protect the environment

Avoid release to the environment.

7.1.2. Advice on general occupational hygiene

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 and eyes. Do not breathe vapours/mist. Open and handle the container with caution. Weigh out and mix separately when processing polyester resins. Adhere to the workplace limit values and / or other threshold values.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Technical measures and storage conditions

Keep in tightly closed container. Keep in cool and well ventilated area. Keep in a dry place. Protect from open fire, heat and direct sunlight. Keep away from oxidising substances. Keep away from food, drink and animal feeding stuffs. Never return unused material to storage receptacle. Keep apart from dirt, rust, chemicals, especially reducing substances, acids, alkaline solutions, amines and heavy metal compounds such as accelerator, dessicative, metal soaps. Avoid storage in containers with an airtight closure to prevent hazardous pressure build-up due to an eventual decomposition. Protect from contamination. Store and use only in equipment/containers designed for use with this product. Adhere to the provisions of the Law on Water Protection. Keep in a locked place. Keep out of the reach of children. Store below +25°C.

7.2.2. Packaging materials

Store only in original container. Suitable materials: Stainless steel (DIN 1.4571), PVC, polyethylene, glass-lined apparatus.

7.2.3. Requirements for storage rooms and vessels

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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

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SAFETY DATA SHEET according to Regulation 1907/2006



Product name: 8080 Sprayplast komp B

Creation date: 23.2.2017 · Revision: 3.7.2019 · Version: 1

Industrial sector specific solutions

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Occupational exposure limit values

Name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m ³ (ppm)	mg/m ³	ml/m ³ (ppm)	mg/m ³		
Dimethyl phthalate (131-11-3)	-	5	-	10		
Ethyl acetate (141-78-6)	200	734	400	1468		
4-Hydroxy-4- methylpentan-2-one (123-42-2)	50	241	75	362		

8.1.2. 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.

SAFETY DATA SHEET according to Regulation 1907/2006

Product name: **8080 Sprayplast komp B**

Creation date: **23.2.2017** · Revision: **3.7.2019** · Version: **1**



8.1.3. DNEL/DMEL values

For components

Name	Type	Exposure route	Exposure frequency	Value	Remark
ethyl acetate (141-78-6)	Worker	inhalation	short term (systemic effects)	1468 mg/m ³	
ethyl acetate (141-78-6)	Worker	dermal	long term (systemic effects)	63 mg/kg	
ethyl acetate (141-78-6)	Worker	inhalation	long term (local effects)	734 mg/m ³	
ethyl acetate (141-78-6)	Worker	inhalation	long term (systemic effects)	734 mg/m ³	
ethyl acetate (141-78-6)	Consumer	inhalation	short term (local effects)	734 mg/m ³	
ethyl acetate (141-78-6)	Consumer	inhalation	short term (systemic effects)	734 mg/m ³	
ethyl acetate (141-78-6)	Consumer	dermal	long term (systemic effects)	37 mg/kg	
ethyl acetate (141-78-6)	Consumer	inhalation	long term (local effects)	367 mg/m ³	
ethyl acetate (141-78-6)	Consumer	oral	long term (systemic effects)	4,5 mg/kg	
ethyl acetate (141-78-6)	Consumer	inhalation	long term (systemic effects)	367 mg/m ³	
ethyl acetate (141-78-6)	Worker	inhalation	short term (local effects)	1468 mg/m ³	
4-hydroxy-4-methylpentan-2-one (123-42-2)	Worker	inhalation	short term (local effects)	240 mg/m ³	
4-hydroxy-4-methylpentan-2-one (123-42-2)	Worker	dermal	long term (systemic effects)	9,4 mg/kg bw/day	
4-hydroxy-4-methylpentan-2-one (123-42-2)	Worker	inhalation	long term (systemic effects)	66,4 mg/m ³	
4-hydroxy-4-methylpentan-2-one (123-42-2)	Consumer	inhalation	short term (local effects)	120 mg/m ³	
4-hydroxy-4-methylpentan-2-one (123-42-2)	Consumer	dermal	long term (systemic effects)	3,4 mg/kg bw/day	
4-hydroxy-4-methylpentan-2-one (123-42-2)	Consumer	oral	long term (systemic effects)	3,4 mg/kg bw/day	
4-hydroxy-4-methylpentan-2-one (123-42-2)	Consumer	inhalation	long term (systemic effects)	11,8 mg/m ³	
4-hydroxy-4-methylpentan-2-one (123-42-2)	Consumer	inhalation	long term (local effects)	11,8 mg/m ³	
4-hydroxy-4-methylpentan-2-one (123-42-2)	Worker	inhalation	long term (local effects)	66,4 mg/m ³	
Dimethyl phthalate (131-11-3)	Consumer	oral	long term (systemic effects)	25 mg/kg	
Dimethyl phthalate (131-11-3)	Consumer	dermal	long term (systemic effects)	60 mg/kg	
Dimethyl phthalate (131-11-3)	Worker	dermal	long term (systemic effects)	100 mg/kg	
Dimethyl phthalate (131-11-3)	Consumer	inhalation	long term (systemic effects)	86,96 mg/m ³	
Dimethyl phthalate (131-11-3)	Worker	inhalation	long term (systemic effects)	293,86 mg/m ³	

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: 8080 Sprayplast komp B

Creation date: 23.2.2017 · Revision: 3.7.2019 · Version: 1

8.1.4. PNEC values

For components

Name	Exposure route	Value	Remark
ethyl acetate (141-78-6)	fresh water	0,26 mg/L	
ethyl acetate (141-78-6)	marine water	0,026 mg/L	
ethyl acetate (141-78-6)	fresh water sediment	1,25 mg/kg	
ethyl acetate (141-78-6)	marine water sediment	0,125 mg/kg	
ethyl acetate (141-78-6)	water treatment plant	650 mg/L	
4-hydroxy-4-methylpentan-2-one (123-42-2)	fresh water	2 mg/L	
4-hydroxy-4-methylpentan-2-one (123-42-2)	marine water	0,2 mg/L	
4-hydroxy-4-methylpentan-2-one (123-42-2)	fresh water sediment	9,06 mg/kg	
4-hydroxy-4-methylpentan-2-one (123-42-2)	marine water sediment	0,91 mg/kg	
4-hydroxy-4-methylpentan-2-one (123-42-2)	soil	0,63 mg/kg	
4-hydroxy-4-methylpentan-2-one (123-42-2)	water treatment plant	82 mg/L	
Dimethyl phthalate (131-11-3)	water treatment plant	4 mg/L	
Dimethyl phthalate (131-11-3)	fresh water sediment	1,403 mg/kg	
Dimethyl phthalate (131-11-3)	fresh water	0,192 mg/L	
Dimethyl phthalate (131-11-3)	water treatment plant	4 mg/L	
Dimethyl phthalate (131-11-3)	marine water	0,0192 mg/L	

8.2. Exposure controls

8.2.1. Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols. Avoid contact with eyes and skin. Keep away from foodstuffs, beverages and feed.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse. Store protective clothing separate from regular clothing.

Technical measures to prevent exposure

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

8.2.2. Personal protective equipment

Eye and face protection

Tight fitting protective goggles (EN 166).

Hand protection

Protective gloves (EN 374). Protect hands with barrier cream. Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Appropriate materials

Material	Thickness	Penetration Time	Remark
Butyl rubber	≥ 0,5 mm	≥ 60 min	EN 374 – 3

Skin protection

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

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: 8080 Sprayplast komp B

Creation date: 23.2.2017 · Revision: 3.7.2019 · Version: 1

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard EN 137, EN 138.

Thermal hazards

-

8.2.3. Environmental exposure controls

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

-	Physical state:	liquid
-	Colour:	colourless
-	Odour:	Ketone

Important health, safety and environmental information

-	pH	No information.
-	Melting point/freezing point	No information.
-	Initial boiling point/boiling range	No information.
-	Flash point	-4 °C
-	Evaporation rate	No information.
-	Flammability (solid, gas)	No information.
-	Explosion limits (vol%)	1,4 – 11,5 vol %
-	Vapour pressure	No information.
-	Vapour density	No information.
-	Density	Density: ca. 1 g/cm ³ at 20 °C
-	Solubility	Water: Partially soluble
-	Partition coefficient	No information.
-	Auto-ignition temperature	No information.
-	Decomposition temperature	No information.
-	Viscosity	No information.
-	Explosive properties	No information.
-	Oxidising properties	No information.

9.2. Other information

-	Remarks:	
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SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended transport or storage conditions.

10.2. Chemical stability

Resistant to inert materials only.

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **8080 Sprayplast komp B**

Creation date: **23.2.2017** · Revision: **3.7.2019** · Version: **1**

10.3. Possibility of hazardous reactions

Thermal decomposition or direct contact with numerous additives, such as reducing agents, heavy metal compounds, acids and alkaline solutions, may lead to hazardous, autoaccelerating decomposition reactions, and possibly, to explosion or fire.

10.4. Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks. Thermal decomposition at temperatures >50 °C (SADT). Do not expose to temperatures exceeding 25°C. To avoid thermal decomposition do not overheat.

10.5. Incompatible materials

Oxidants.

10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. In the event of fire toxic pyrolysis products can be generated. Formation of various organic degradation products and inflammable and explosive vapours/gases upon decomposition.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

(a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
ethyl acetate (141-78-6)	oral	LD ₅₀	mouse		4100 mg/kg		
ethyl acetate (141-78-6)	oral	LD ₅₀	rat		5620 mg/kg		
ethyl acetate (141-78-6)	oral	LD ₅₀	rabbit		4934 mg/kg		
ethyl acetate (141-78-6)	dermal	LD ₅₀	rabbit		> 18000 mg/kg		
ethyl acetate (141-78-6)	inhalation	LC ₅₀	rat	4 h	1600 mg/l		
4-hydroxy-4-methylpentan-2-one (123-42-2)	oral	LD ₅₀	rat		3002 mg/kg	OECD 401	
4-hydroxy-4-methylpentan-2-one (123-42-2)	dermal	LD ₅₀	rabbit		13630 mg/kg		
4-hydroxy-4-methylpentan-2-one (123-42-2)	dermal	LD ₅₀	rat		> 1875 mg/kg	OECD 402	
4-hydroxy-4-methylpentan-2-one (123-42-2)	inhalation	LC ₅₀	mouse	4 h	500 – 1900 mg/m ³		
4-hydroxy-4-methylpentan-2-one (123-42-2)	inhalation	LC ₅₀	rat	4 h	> 7,6 mg/l	OECD 403	
Dimethyl phthalate (131-11-3)	oral	LD ₅₀	rat		> 2400 mg/kg		
Dimethyl phthalate (131-11-3)	dermal	LD ₅₀	rabbit		> 10000 mg/kg		
Dimethyl phthalate (131-11-3)	inhalation	LC ₅₀		6 h	9,3 mg/l		
cyclohexanone, peroxide (12262-58-7)	oral	LD ₅₀	mouse		880 mg/kg		
cyclohexanone, peroxide (12262-58-7)	oral	LD ₅₀	rat		1155 mg/kg		
cyclohexanone, peroxide (12262-58-7)	dermal	LD ₅₀			> 2000 mg/kg		
cyclohexanone, peroxide (12262-58-7)	inhalation	LC ₀	rat	4 h	5 mg/l		

(b) Skin corrosion/irritation

Additional information: Corrosive. Causes severe skin burns and eye damage.

(c) Serious eye damage/irritation

No information.

(d) Respiratory or skin sensitisation

No information.

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **8080 Sprayplast komp B**

Creation date: **23.2.2017** · Revision: **3.7.2019** · Version: **1**

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

Name	Exposure route	Type	Species	Time	Value	Result	Method	Remark
4-hydroxy-4-methylpentan-2-one (123-42-2)	oral	NOAEL	rat		300 mg/kg			
4-hydroxy-4-methylpentan-2-one (123-42-2)	inhalation	NOAEL	rat		1,84 mg/l			

(g) Reproductive toxicity

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
4-hydroxy-4-methylpentan-2-one (123-42-2)	Effects on fertility	NOAEL (P)	rat		30 – 100 mg/kg		OECD 422	oral
4-hydroxy-4-methylpentan-2-one (123-42-2)	Effects on fertility	NOAEL (F1)	rat		300 mg/kg		OECD 422	oral
4-hydroxy-4-methylpentan-2-one (123-42-2)	Effects on fertility	NOAEL (P)	rat		4,1 mg/L		OECD 416	Inhalation
4-hydroxy-4-methylpentan-2-one (123-42-2)	Effects on fertility	NOAEL (F1)	rat		4,1 mg/L		OECD 416	Inhalation
4-hydroxy-4-methylpentan-2-one (123-42-2)	Teratogenicity	NOAEL	rat		4,1 mg/L		OECD 414	Inhalation
Dimethyl phthalate (131-11-3)	Developmental toxicity	NOAEL	rat		3570 mg/kg		OECD 414	oral
Dimethyl phthalate (131-11-3)	Maternal toxicity	NOAEL	rat		840 mg/kg		OECD 414	oral

Summary of evaluation of the CMR properties

No information.

(h) STOT-single exposure

Additional information: May cause drowsiness or dizziness. STOT - single exposure: May cause respiratory irritation.

(i) STOT-repeated exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
4-hydroxy-4-methylpentan-2-one (123-42-2)	oral	NOAEL	rat	6 weeks	Liver; kidneys	30 – 100 mg/kg			
4-hydroxy-4-methylpentan-2-one (123-42-2)	inhalation	LOAEL	human			0,48 mg/L			
4-hydroxy-4-methylpentan-2-one (123-42-2)	inhalation	NOAEL	rat	6 weeks	Liver; kidneys	1,041 mg/L			
Dimethyl phthalate (131-11-3)	oral	NOAEL	rat	24 months		1000 mg/kg bw/day			

(j) Aspiration hazard

No information.

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: 8080 Sprayplast komp B

Creation date: 23.2.2017 · Revision: 3.7.2019 · Version: 1

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Acute (short-term) toxicity

For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
ethyl acetate (141-78-6)	EC ₁₀	2900 mg/L	16 h	bacteria	<i>Pseudomonas putida</i>		
	EC ₅₀	5600 mg/L	48 h	algae	<i>Scenedesmus subspicatus</i>		
	EC ₅₀	165 mg/L	48 h	crustacea	<i>Daphnia magna</i>		
	LC ₅₀	230 mg/L	96 h	fish	<i>Pimephales promelas</i>		
	NOEC	< 9,65 mg/L		fish	<i>Pimephales promelas</i>	OECD 212	
4-hydroxy-4-methylpentan-2-one (123-42-2)	EC ₅₀	9016 mg/L	24 h	<i>Daphnia</i>			
	EC ₅₀	17 mg/L	30 min	microorganisms	Activated sludge		
	EC ₅₀	> 1000 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	
	EC ₅₀	> 1000 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	
	LC ₅₀	420 mg/L	96 h	fish	<i>Lepomis macrochirus</i>		
	LC ₅₀	> 100 mg/L	96 h	fish	<i>Oryzias latipes</i>	OECD 203	
	NOEC	1000 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	
Dimethyl phthalate (131-11-3)	TGK	825 mg/L	16 h	bacteria	<i>Pseudomonas putida</i>		
	EC ₁₀	193,09 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>		
	EC ₅₀	33 mg/L	48 h	crustacea	<i>Daphnia magna</i>		
	EC ₅₀	259,76 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>		
	EC ₅₀	39,9 mg/L	96 h	algae	<i>Raphidocelis subcapitata</i>		
	LC ₅₀	39 mg/L	96 h	fish	<i>Pimephales promelas</i>		
cyclohexanone, peroxide (12262-58-7)	LC ₅₀	50 mg/L	96 h	fish	<i>Lepomis macrochirus</i>		
	EC ₅₀	11,1 mg/L	30 min	microorganisms	Activated sludge		
	LC ₅₀	48 mg/L	96 h	fish	<i>Danio rerio</i>		

12.1.2. Chronic (long-term) toxicity

For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
ethyl acetate (141-78-6)	NOEC	2,4 mg/l	21 days	crustacea	<i>Daphnia magna</i>		
4-hydroxy-4-methylpentan-2-one (123-42-2)	NOEC	≥ 100 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	
Dimethyl phthalate (131-11-3)	NOEC	9,6 mg/l	21 days	crustacea	<i>Daphnia magna</i>		
	NOEC	11 mg/l	102 days	fish	<i>Oncorhynchus mykiss</i>		

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: 8080 Sprayplast komp B

Creation date: 23.2.2017 · Revision: 3.7.2019 · Version: 1

12.2. Persistence and degradability

12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

12.2.2. Biodegradation

For components

Substance (CAS Nr.)	Type	Rate	Time	Evaluation	Method	Remark
ethyl acetate (141-78-6)	biodegradability	> 70 %			440/2008/EG C.4-A, DOC	
4-hydroxy-4-methylpentan-2-one (123-42-2)	biodegradability	98,51 %	28 days		OECD 301 A	
Dimethyl phthalate (131-11-3)	biodegradability	96 – 98 %	28 days		OECD 301 E	
cyclohexanone, peroxide (12262-58-7)	biodegradability	92 %	28 days		OECD 301 D	

12.3. Bioaccumulative potential

12.3.1. Partition coefficient

For components

Substance (CAS Nr.)	Media	Value	Temperature	pH	Concentration	Method
ethyl acetate (141-78-6)	Octanol-water (log Pow)	0,68 – 0,73	25 °C			
4-hydroxy-4-methylpentan-2-one (123-42-2)	Octanol-water (log Pow)	1,03				
Dimethyl phthalate (131-11-3)	Octanol-water (log Pow)	1,56				OECD 107
cyclohexanone, peroxide (12262-58-7)	Octanol-water (log Pow)	3,02				

12.3.2. Bioconcentration factor (BCF)

For components

Substance (CAS Nr.)	Type	Organism	Value	Duration	Evaluation	Method	Remark
ethyl acetate (141-78-6)	BCF		30				
4-hydroxy-4-methylpentan-2-one (123-42-2)	BCF		0,5				
Dimethyl phthalate (131-11-3)	BCF	<i>Lepomis macrochirus</i>	57	21 days		OECD 305	

12.4. Mobility in soil

12.4.1. Known or predicted distribution to environmental compartments

No information.

12.4.2. Surface tension

No information.

12.4.3. Adsorption/Desorption

For components

Substance (CAS Nr.)	Type	Criterion	Value	Evaluation	Method	Remark
4-hydroxy-4-methylpentan-2-one (123-42-2)	Soil	log KOC	1,3			
Dimethyl phthalate (131-11-3)	Soil	log KOC	1,57			

12.5. Results of PBT and vPvB assessment

No evaluation.

12.6. Other adverse effects

No information.

12.7. Additional information

For product

Do not allow to reach ground water, water courses or sewage system.

SAFETY DATA SHEET according to Regulation 1907/2006

Product name: **8080 Sprayplast komp B**
Creation date: **23.2.2017** · Revision: **3.7.2019** · Version: 1



SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal

Waste chemical

Dispose according to regulations. Dilute product with suitable inert liquid to a peroxide concentration below 10% and subsequently dispose of according to the refuse disposal act. Do not dispose together with household garbage. Do not allow product to reach drains/sewage systems.

Waste codes / waste designations according to LoW

16 05 06* - laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Packaging

Deliver completely emptied containers to approved waste disposal authorities.

13.1.2. Waste treatment-relevant information

-

13.1.3. Sewage disposal-relevant information

-

13.1.4. Other disposal recommendations

-

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

UN 3105

14.2. UN proper shipping name

ORGANIC PEROXIDE TYPE D, LIQUID (cyclohexanone, peroxide)

14.3. Transport hazard class(es)

5.2

14.4. Packing group

Not applicable.

14.5. Environmental hazards

NO.

14.6. Special precautions for user

Limited quantities

125 ml

Tunnel restriction code

(D)

IMDG flashpoint

-4 °C, c.c.

IMDG EmS

F-J, S-R

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.



SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **8080 Sprayplast komp B**

Creation date: **23.2.2017** · Revision: **3.7.2019** · Version: **1**

SECTION 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

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

Not applicable.

15.1.2. Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2. Chemical Safety Assessment

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

SECTION 16. OTHER INFORMATION

Indication of changes

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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

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **8080 Sprayplast komp B**

Creation date: **23.2.2017** · Revision: **3.7.2019** · Version: **1**

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
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

Key literature references and sources for data

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List of relevant H phrases

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H240 Heating may cause an explosion.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **8080 Sprayplast komp B**

Creation date: **23.2.2017** · Revision: **3.7.2019** · Version: 1



- Provided correct labelling of the product
- Compliance with the local legislation
- Provided correct classification of the product

The information of this SDS 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.

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