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

1.1. Product identifier

chemius.net/0FXa8

Product name

3550 Control Spray

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

Relevant identified uses

Coating.

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)

Aerosol 1; H222 Extremely flammable aerosol.
Aerosol 1; H229 Pressurised container: May burst if heated.
Eye Irrit. 2; H319 Causes serious eye irritation.
STOT SE 3; H336 May cause drowsiness or dizziness.

2.2 Label elements

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

Signal word: **Danger**

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
EUH066 Repeated exposure may cause skin dryness or cracking.
P251 Do not pierce or burn, even after use.
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.
P410 + P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122°F.
P102 Keep out of reach of children.
P271 Use only outdoors or in a well-ventilated area.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with national regulation.

2.2.2. Contains:

acetone (CAS: 67-64-1, EC: 200-662-2, Index: 606-001-00-8)
n-butyl acetate (CAS: 123-86-4, EC: 204-658-1, Index: 607-025-00-1)

2.2.3. Special provisions

Special hazards are not known or expected.

2.3. Other hazards

No information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

For mixtures see 3.2.

3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
acetone	67-64-1 200-662-2 606-001-00-8	25-50	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066		01-2119471330-49
propane	74-98-6 200-827-9 601-003-00-5	10-25	Flam. Gas 1; H220		-
butane *[C]*	106-97-8 203-448-7 601-004-00-0	10-25	Flam. Gas 1; H220		-
dimethyl ether	115-10-6 204-065-8 603-019-00-8	10-25	Flam. Gas 1; H220		01-2119472128-37
xylene *[C]*	1330-20-7 215-535-7 601-022-00-9	5-10	Flam. Liq. 3; H226 Acute Tox. 4; H312 Skin Irrit. 2; H315 Acute Tox. 4; H332		01-2119488216-32
n-butyl acetate	123-86-4 204-658-1 607-025-00-1	5-10	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066		01-2119485493-29
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 607-195-00-7	2,5-5	Flam. Liq. 3; H226		01-2119475791-29
Nitrocellulose	9004-70-0 - -	1-2,5	Unst. Expl.; H200		-
ethanol	64-17-5 200-578-6 603-002-00-5	1-2,5	Flam. Liq. 2; H225		-
4-methylpentan-2-one	108-10-1 203-550-1 606-004-00-4	1-2,5	Flam. Liq. 2; H225 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 EUH066		-

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.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General notes

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. If symptoms develop and persist, seek medical attention.

Following skin contact

Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation does not stop, seek professional medical treatment!

Following ingestion

Not likely.

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

Inhalation

Vapours may cause drowsiness and dizziness.

Skin contact

Causes irritation of mucous membrane.
Prolonged and repeated exposure may cause redness, itching and cracking of the skin in sensitive people.
Repeated exposure may cause dry skin or cracked skin.

Eye contact

Redness, tearing, pain.

Ingestion

May cause nausea/vomiting and diarrhea.

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

-

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Fire extinguishing powder.
Carbon dioxide (CO_2).
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

-

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).

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).

Emergency procedures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! Prevent access to unprotected personnel. Prevent access to unauthorised personnel.

6.1.2. For emergency responders

-

6.2. Environmental precautions

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

-

6.3.2. For cleaning up

Collect the spray cans and hand them over to an authorized waste disposal contractor. Do not rinse contaminated area with water or aqueous cleansing agents.

6.3.3. Other information

-

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. Use spark-proof tools. Take precautionary measures against static discharges. Pressurized container; protect from sunlight and do not expose to tempratures exceeding 50°C. Do not pierce or burn, even after use. Vapours are heavier than air and spread along floor. Vapours and air form explosive mixtures.

Measures to prevent aerosol and dust generation

-

Measures to protect 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.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Technical measures and storage conditions

Keep in cool and well ventilated area. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs.

7.2.2. Packaging materials

-

7.2.3. Requirements for storage rooms and vessels

-

7.2.4. Storage class

-

7.2.5. Further information on storage conditions

-

7.3. Specific end use(s)

Recommendations

-

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/m³ (ppm)	mg/m³	ml/m³ (ppm)	mg/m³		
Acetone (67-64-1)	500	1210	1500	3620		
Butane (106-97-8)	600	1450	750	1810	Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene)	
Butyl acetate (123-86-4)	150	724	200	966		
Dimethyl ether (115-10-6)	400	766	500	958		
Ethanol (64-17-5)	1000	1920	-	-		
1-Methoxypropyl acetate (108-65-6)	50	274	100	548	Sk	
4-Methylpentan-2-one (108-10-1)	50	208	100	416	Sk, BMGV	20 µmol 4-methylpentan-2-one/L in urine - Post shift
Xylene, o-,m-,p- or mixed isomers (1330-20-7)	50	220	100	441	Sk, BMGV	650 mmol methyl hippuric acid/mol creatinine in urine - Post shift
propane (74-98-6)	1000	1800				
butane (106-97-8)	1000	2400				
xylene (1330-20-7)	100	440				
ethanol (64-17-5)	1000	1900				

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.

8.1.3. DNEL/DMEL values

For components

Name	Type	Exposure route	Exposure frequency	Value	Remark
acetone (67-64-1)	Worker	dermal	long term (systemic effects)	186 mg/kg	
acetone (67-64-1)	Worker	inhalation	short term (systemic effects)	2420 mg/m³	
acetone (67-64-1)	Worker	inhalation	long term (systemic effects)	1210 mg/m³	
acetone (67-64-1)	Consumer	oral	long term (systemic effects)	62 mg/kg	
acetone (67-64-1)	Consumer	dermal	long term (systemic effects)	62 mg/kg	
acetone (67-64-1)	Consumer	inhalation	long term (systemic effects)	200 mg/m³	
dimethyl ether (115-10-6)	Worker	inhalation	long term (systemic effects)	1894 mg/m³	
dimethyl ether (115-10-6)	Consumer	inhalation	long term (systemic effects)	471 mg/m³	
xylene (1330-20-7)	Consumer	dermal	long term (systemic effects)	108 mg/kg	
xylene (1330-20-7)	Consumer	inhalation	long term (systemic effects)	14,8 mg/m³	
xylene (1330-20-7)	Consumer	oral	long term (systemic effects)	1,6 mg/kg	
xylene (1330-20-7)	Worker	dermal	long term (systemic effects)	180 mg/kg	
xylene (1330-20-7)	Worker	inhalation	long term (systemic effects)	77 mg/m³	
xylene (1330-20-7)	Worker	inhalation	short term (systemic effects)	289 mg/kg	
n-butyl acetate (123-86-4)	Consumer	inhalation	long term (systemic effects)	102,34 mg/m³	
n-butyl acetate (123-86-4)	Consumer	inhalation	long term (systemic effects)	102,34 mg/m³	
n-butyl acetate (123-86-4)	Consumer	inhalation	short term (systemic effects)	859,7 mg/m³	
n-butyl acetate (123-86-4)	Consumer	inhalation	short term (systemic effects)	859,7 mg/m³	
n-butyl acetate (123-86-4)	Worker	inhalation	long term (systemic effects)	480 mg/m³	
n-butyl acetate (123-86-4)	Worker	inhalation	short term (systemic effects)	480 mg/m³	
n-butyl acetate (123-86-4)	Worker	inhalation	short term (systemic effects)	960 mg/m³	
2-methoxy-1-methylethyl acetate (108-65-6)	Consumer	dermal	long term (systemic effects)	54,8 mg/kg	
2-methoxy-1-methylethyl acetate (108-65-6)	Consumer	inhalation	long term (systemic effects)	33 mg/m³	
2-methoxy-1-methylethyl acetate (108-65-6)	Consumer	oral	long term (systemic effects)	1,67 mg/kg	
2-methoxy-1-methylethyl acetate (108-65-6)	Worker	dermal	long term (systemic effects)	153,5 mg/kg	
2-methoxy-1-methylethyl acetate (108-65-6)	Worker	inhalation	long term (systemic effects)	275 mg/m³	
ethanol (64-17-5)	Worker	inhalation	short term (systemic effects)	1900 mg/m³	
ethanol (64-17-5)	Worker	inhalation	long term (systemic effects)	950 mg/m³	continuous
ethanol (64-17-5)	Worker	dermal	long term (systemic effects)	343 mg/kg	continuous

8.1.4. PNEC values

For components

Name	Exposure route	Value	Remark
acetone (67-64-1)	marine water	1,06 mg/L	
acetone (67-64-1)	fresh water	10,6 mg/L	
acetone (67-64-1)	fresh water sediment	30,4 mg/L	
acetone (67-64-1)	marine water sediment	3,04 mg/L	
acetone (67-64-1)	soil	0,112 mg/L	
acetone (67-64-1)	water treatment plant	29,5 mg/L	
dimethyl ether (115-10-6)	fresh water	0,155 mg/L	
dimethyl ether (115-10-6)	fresh water sediment	0,681 mg/kg	
dimethyl ether (115-10-6)	soil	0,045 mg/kg	
dimethyl ether (115-10-6)	water treatment plant	160 mg/L	
dimethyl ether (115-10-6)	marine water	0,016 mg/L	
dimethyl ether (115-10-6)	water, intermittent release	1,549 mg/L	
dimethyl ether (115-10-6)	marine water sediment	0,069 mg/kg	
xylene (1330-20-7)	soil	2,31 mg/kg	
xylene (1330-20-7)	fresh water	0,327 mg/L	
xylene (1330-20-7)	fresh water sediment	12,46 mg/kg	
xylene (1330-20-7)	marine water	0,327 mg/L	
xylene (1330-20-7)	marine water sediment	12,46 mg/kg	
n-butyl acetate (123-86-4)	soil	0,0903 mg/kg	
n-butyl acetate (123-86-4)	fresh water	0,18 mg/L	
n-butyl acetate (123-86-4)	fresh water sediment	0,981 mg/kg	
n-butyl acetate (123-86-4)	marine water	0,018 mg/L	
n-butyl acetate (123-86-4)	marine water sediment	0,0981 mg/kg	
2-methoxy-1-methylethyl acetate (108-65-6)	soil	0,29 mg/kg	
2-methoxy-1-methylethyl acetate (108-65-6)	fresh water	0,635 mg/L	
2-methoxy-1-methylethyl acetate (108-65-6)	fresh water sediment	3,29 mg/kg	
2-methoxy-1-methylethyl acetate (108-65-6)	marine water	0,0635 mg/L	
2-methoxy-1-methylethyl acetate (108-65-6)	marine water sediment	0,329 mg/kg	
ethanol (64-17-5)	marine water	0,79 mg/L	
ethanol (64-17-5)	fresh water	0,96 mg/L	
ethanol (64-17-5)	fresh water sediment	3,6 mg/kg	
ethanol (64-17-5)	marine water sediment	2,9 mg/kg	
ethanol (64-17-5)	soil	0,63 mg/kg	
ethanol (64-17-5)		720 mg/kg	

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. Avoid contact with eyes and skin. Do not breathe vapours/aerosols.

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

Safety glasses with side protection (EN 166).

Hand protection

Protective gloves (EN 374). 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 penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

Material	Thickness	Penetration Time	Remark
Nitrile			
Butyl rubber	0,7 mm		Short term use.

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. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

Thermal hazards

-

8.2.3. Environmental exposure controls

-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

-	**Physical state:**	liquid
-	**Colour:**	specified on the label
-	**Odour:**	characteristic

Important health, safety and environmental information

-	**pH**	No information.
-	**Melting point/freezing point**	No information.
-	**Initial boiling point/boiling range**	No information.
-	**Flash point**	≤ 0 °C
-	**Evaporation rate**	No information.
-	**Flammability (solid, gas)**	235 °C
-	**Explosion limits (vol%)**	1,5 – 18,6 vol %
-	**Vapour pressure**	3600 hPa at 20 °C
-	**Vapour density**	No information.
-	**Density**	**Density**: 0,75 g/cm^3 at 20 °C
-	**Solubility**	**Water**: Insoluble
-	**Partition coefficient**	No information.
-	**Auto-ignition temperature**	No information.
-	**Decomposition temperature**	No information.
-	**Viscosity**	No information.
-	**Explosive properties**	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
-	**Oxidising properties**	No information.

9.2. Other information

-	**Weight organic solvents**	90,2 %
-	**Solid contents**	9,8 %
-	**Remarks:**	

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

-

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

-

10.4. Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

10.5. Incompatible materials

Acids.
Strong bases.
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.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

(a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
acetone (67-64-1)	oral	LD_{50}	rat		5800 mg/kg		
acetone (67-64-1)	dermal	LD_{50}	rabbit		20000 mg/kg		
propane (74-98-6)	inhalation	LC_{50}	rat	4 h	658 mg/l		dust/aerosol
butane (106-97-8)	inhalation	LC_{50}	rat	4 h	658 mg/l		vapour
dimethyl ether (115-10-6)	inhalation	LC_{50}	rat	4 h	308 mg/l		dust/aerosol
xylene (1330-20-7)	oral	LD_{50}	rat		3523 mg/kg		
xylene (1330-20-7)	dermal	LD_{50}	rabbit		4350 mg/kg		
xylene (1330-20-7)	inhalation	LC_{50}	rat	4 h	6350 ppmV		gas
n-butyl acetate (123-86-4)	oral	LD_{50}	rat		6400 mg/kg		
n-butyl acetate (123-86-4)	dermal	LD_{50}	rabbit		5000 mg/kg		
n-butyl acetate (123-86-4)	inhalation	LC_{50}	rat	4 h	21,1 mg/l		dust/aerosol
2-methoxy-1-methylethyl acetate (108-65-6)	oral	LD_{50}	rat		8530 mg/kg		
2-methoxy-1-methylethyl acetate (108-65-6)	inhalation	LC_{50}	rat	4 h	35,7 mg/l		vapour
2-methoxy-1-methylethyl acetate (108-65-6)	dermal	LD_{50}	rat		5000 mg/kg		
ethanol (64-17-5)	oral	LD_{50}	rat		6200 mg/kg		
ethanol (64-17-5)	dermal	LD_{50}	rabbit		20000 mg/kg		
ethanol (64-17-5)	inhalation	LC_{50}	rat	4 h	8000 mg/l		dust/aerosol
4-methylpentan-2-one (108-10-1)	oral	LD_{50}	rat		2100 mg/kg		
4-methylpentan-2-one (108-10-1)	dermal	LD_{50}	rabbit		16000 mg/kg		
4-methylpentan-2-one (108-10-1)	inhalation	LC_{50}	rat	4 h	8,3 – 16,6 mg/l		dust/aerosol

(b) Skin corrosion/irritation

Name	Species	Time	Result	Method	Remark
xylene (1330-20-7)			Prolonged and repeated contact can cause dermatitis.		
n-butyl acetate (123-86-4)			Irritating.		
n-butyl acetate (123-86-4)			Causes dermatitis.		

(c) Serious eye damage/irritation

Name	Species	Time	Result	Method	Remark
For product			Irritating to eyes.		
n-butyl acetate (123-86-4)			Irritating.		
2-methoxy-1-methylethyl acetate (108-65-6)			May cause irritation.		
ethanol (64-17-5)			Irritating.		

(d) Respiratory or skin sensitisation

No information.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

No information.

(h) STOT-single exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
n-butyl acetate (123-86-4)	inhalation						Irritates respiratory system.		

(i) STOT-repeated exposure

No information.

(j) Aspiration hazard

No information.

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
acetone (67-64-1)	EC_{50}	39 mg/L	48 h	crustacea			
	LC_{50}	5000 mg/L	96 h	fish			
propane (74-98-6)	LC_{50}	0,12 – 693 mg/L	96 h	fish			
butane (106-97-8)	LC_{50}	24,11 mg/L	96 h	fish		US Environmental Protection Agency's Office of pollution Prevention (2008)	
	LC_{50}	14,22 mg/L	48 h	crustacea		US Environmental Protection Agency's Office of pollution Prevention (2008)	
dimethyl ether (115-10-6)	LC_{50}	1000 mg/L	96 h	fish			
	EC_{50}	4400 mg/L	48 h	crustacea			
xylene (1330-20-7)	LC_{50}	14 mg/L	96 h	fish			
	EC_{50}	16 mg/L	48 h	crustacea			
n-butyl acetate (123-86-4)	EC_{50}	44 mg/L	48 h	crustacea	*Daphnia magna*		
	LC_{50}	18 mg/L	96 h	fish	*Oncorhynchus mykiss*		
2-methoxy-1-methylethyl acetate (108-65-6)	LC_{50}	100 mg/L	96 h	fish	*Oncorhynchus mykiss*		
	EC_{50}	500 mg/L	48 h	crustacea			
ethanol (64-17-5)	LC_{50}	3300 mg/L	0	fish	*Leuciscus idus*		
4-methylpentan-2-one (108-10-1)	LC_{50}	505 – 540 mg/L	96 h	fish			
	EC_{50}	170 mg/L	48 h	crustacea	*Daphnia magna*	OECD 202	Static system, Fresh water, Experimental value
	EC_{50}	400 mg/L	96 h	algae			

12.1.2. Chronic (long-term) toxicity

For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
acetone (67-64-1)	LC_{50}	4042 mg/l	14 days	fish			
	NOEC	3400 mg/l	48 h	algae	*Pseudokirchneriella subcapitata*		
ethanol (64-17-5)	NOEC		0	fish			

12.2. Persistence and degradability

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

No information.

12.2.2. Biodegradation

No information.

12.3. Bioaccumulative potential

12.3.1. Partition coefficient

No information.

12.3.2. Bioconcentration factor (BCF)

For components

Substance (CAS Nr.)	Type	Organism	Value	Duration	Evaluation	Method	Remark
propane (74-98-6)	organism		2,3				
butane (106-97-8)	organism		2,3				
2-methoxy-1-methylethyl acetate (108-65-6)	organism		0,43				

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

No information.

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.
Water hazard class 2 (self-assessment): hazardous for water.
Danger to drinking water if even small quantities leak into ground water.

For components

Substance: acetone

Water hazard class 1 (Self-assessment): slightly hazardous for water

Substance: dimethyl ether

Water hazard class 1 (Self-assessment): slightly hazardous for water

Substance: xylene

Chemical Oxygen Demand (COD)
3170 mg O2/g

Log Kow = 3,14-3,18

Substance: n-butyl acetate

Water hazard class 1 (Self-assessment): slightly hazardous for water

Substance: 2-methoxy-1-methylethyl acetate

Water hazard class 1 (Self-assessment): slightly hazardous for water

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal

Waste chemical

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

Waste codes / waste designations according to LoW

15 01 10* - packaging containing residues of or contaminated by dangerous substances

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 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

2

14.4. Packing group

Not applicable.

14.5. Environmental hazards

NO.

14.6. Special precautions for user

Limited quantities

1 L

Tunnel restriction code

(D)

IMDG flashpoint

0 °C, c.c.

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.

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.

15.2. 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

-

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

LC_{50} - Lethal Concentration to 50 % of a test population
LD_{50} - 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

-

List of relevant H phrases

H200 Unstable explosives.
H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

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.