



Kemetyl

Safety data sheet

According to Regulation (EU) No 2020/878

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

1.1. Product identifier

Product name : SHELL COCKPIT SPRAY
Product code : CRX501, AC63F; 50414; 9727030

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

Application : SU21 Consumer product. PC35 Cleaning agent. Other vehicle (all types) cleaning and care products.

1.3. Details of the supplier of the safety data sheet

Supplier : Kemetyl Kimya Sanayi ve Ticaret Limited Sirketi
Küçükbakkalköy Mah. Dereboyu Cad. Brandium AVYM R5
Blok D:82 Ataşehir / Istanbul, Turkey
Telephone : +908503030587
E-mail : msds@kemetyl.com
Website : www.kemetyl.com

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

TR - Telephone : +908503030587

(During office hours only)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification : Aerosols, category 1. Skin sensitization, category 1. Hazardous to the aquatic environment — (1272/2008/EC) Chronic category 3.

Human health hazards : May cause an allergic skin reaction. Exposure to high vapour concentrations may result in a narcotic effect. Use only as directed. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

Physical/chemical hazards : Extremely flammable. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C.

Environmental hazards : Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements ((EU) 1272/2008):

Hazard pictograms :



Signal word : Danger

H- and P-phrases : H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.



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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.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P280	Wear protective gloves.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to an official chemical waste depot.

Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:

Hazard pictograms :



Signal word : Danger

H- and P-phrases	:	H222	Extremely flammable aerosol.
		H229	Pressurised container: May burst if heated.
		H317	May cause an allergic skin reaction.
		H412	Harmful to aquatic life with long lasting effects.
		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.
		P211	Do not spray on an open flame or other ignition source.
		P251	Do not pierce or burn, even after use.
		P280	Wear protective gloves.
		P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
		P501	Dispose of contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

- : Contains: 1,2-Benzisothiazol-3(2H)-one ; 2-Methylisothiazol-3(2H)-one ; 2-Octyl-2H-isothiazol-3-one .
- : Contains 2 % of components with unknown hazards to the aquatic environment.

Ingredient declaration according to Regulation EC 648/2004:

Contains:	Concentration (%)
Aliphatic hydrocarbons	15 - 30
Non-ionic surfactants	< 5
Perfumes, 2-Bromo-2-nitropropane-1,3-diol, Benzisothiazolinone, Methylisothiazolinone, Octylisothiazolinone.	

2.3. Other hazards

Other information : The classification of this product is based on the non-aerosolised form of the mixture (on basis of section 1.1.3.7. of Regulation (EC) No 1272/2008). Does not contain PBT or vPvB substances in concentrations higher than 0,1%. Human health: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher. Environment: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
Butane	10 - < 20	106-97-8	203-448-7	PBT,vPvB	01-2119457610-43
Propane	5 - < 10	74-98-6	200-827-9		
Ethanol	1 - < 5	64-17-5	200-578-6		
Isobutane	0,1 - < 1	75-28-5	200-857-2		
Octamethylcyclotetrasiloxane	0 - < 0,1	556-67-2	209-136-7		
Bronopol	< 0,1	52-51-7	200-143-0		
1,2-Benzisothiazol-3(2H)-one	< 0,036	2634-33-5	220-120-9		
2-Methylisothiazol-3(2H)-one	0,0015 - < 0,1	2682-20-4	220-239-6		
2-Octyl-2H-isothiazol-3-one	< 0,0015	26530-20-1	247-761-7		

Substance name	Hazard Class	H-phrases	Pictograms	
Butane	Flam. Gas 1A; Press. Gas	H220; H280	GHS02; GHS04	
Propane	Flam. Gas 1A; Press. Gas	H220; H280	GHS02; GHS04	
Ethanol	Flam. Liq. 2; Eye Irrit. 2	H225; H319	GHS02; GHS07	H319 : C >= 50 %
Isobutane	Flam. Gas 1A; Press. Gas	H220; H280	GHS02; GHS04	
Octamethylcyclotetrasiloxane	Flam. Liq. 3; Repr. 2; Aquatic Chronic 1	H226; H361f; H410	GHS02; GHS08; GHS09	M (chronic) = 10
Bronopol	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; Acute Tox. 3; Acute Tox. 3	H312; H315; H318; H335; H400; H410; H301; H331	GHS05; GHS06; GHS09	M (acute) = 10 M (chronic) = 1
1,2-Benzisothiazol-3(2H)-one	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Skin Sens. 1A; Acute Tox. 2; Aquatic Acute 1; Aquatic Chronic 1	H302; H315; H318; H317; H330; H400; H410	GHS05; GHS06; GHS07; GHS09	M (acute) = 1 M (chronic) = 1 inhalation: ATE = 0,21 mg/L (dusts or mists) oral: ATE = 450 mg/kg bw H317 : C >= 0,036 %
2-Methylisothiazol-3(2H)-one	Acute Tox. 3; Acute Tox. 3; Skin Corr. 1B; Skin Sens. 1A; Eye Dam. 1; Acute Tox. 2; Aquatic Acute 1; Aquatic Chronic 1	H301; H311; H314; H317; H318; H330; H400; H410; EUH071	GHS05; GHS06; GHS07; GHS09	M (acute) = 10 M (chronic) = 1 H317 : C >= 0,0015 %
2-Octyl-2H-isothiazol-3-one	Acute Tox. 3; Acute Tox. 3; Skin Corr. 1B; Skin Sens. 1A; Eye Dam. 1; Acute Tox. 2; Aquatic Acute 1; Aquatic Chronic 1	H301; H311; H314; H317; H318; H330; H400; H410; EUH071	GHS05; GHS06; GHS07; GHS09	M (acute) = 100 M (chronic) = 100 inhalation: ATE = 0,27 mg/L (dusts or mists) dermal: ATE = 311 mg/kg bw oral: ATE = 125 mg/kg bw H317 : C >= 0,0015 %

Occupational exposure limit(s), if relevant, are listed in section 8.



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Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

First aid measures

- Inhalation : Not applicable.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water before product dries up. Consult a doctor if irritation occurs.
- Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor if irritation persists.
- Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth to an unconscious person. Consult a doctor if victim feels unwell.

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

Effects and symptoms

- Inhalation : Not applicable.
- Skin contact : May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry skin.
- Eye contact : May cause stinging of eyes and redness.
- Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

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

- Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

- Suitable : Carbondioxide (CO₂). Foam. Dry chemical. Water fog.
- Not suitable : Water jet. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

- Special exposure hazards : Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C. Do not expose emergency personnel to overheated aerosol containers. Water may be used to cool container and prevent explosion of the aerosol.
- Hazardous thermal decomposition and combustion products : Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

- Special protective equipment for fire-fighters : Fight a fire where aerosols are involved from a protected position. Use adequate respiratory equipment in case of insufficient ventilation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures



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Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Do not breathe vapours and/or spray. Keep away from sources of ignition — No smoking. Build up of highly flammable gasses involves an explosion risk. Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. Waste product should not be allowed to contaminate soil or water.
Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Do not use saw-dust. Collect aerosol cans in an approved container. Do not pierce aerosols. Wash away remainder with plenty of water.

6.4. Reference to other sections

Reference to other sections : See also section 8.

SECTION 7 HANDLING AND STORAGE *

7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep away from oxidizing agents. Keep frost-free, in a cool (< 35°), dry and well-ventilated place. Protect from sunlight and keep away from heat.
Recommended packaging : Not applicable.

7.3. Specific end use(s)

Use : Use only as directed. Do not mix with other products.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION *

8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour (mg/m ³)	STEL 15 min (mg/m ³)	Comments	Source
Butane	GB	1450	1810	-	MAC: UK
		1450	1810		



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Propane		1800	-		MAC: BG, PL, CH, SL, etc
Ethanol		260	1900	-	MAC: NL
	GB	1920	-	-	
Isobutane		1900	2400	-	MAC: FI, BE, CH

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Ethanol	Inhalation Dermal	1900 mg/m ³			950 mg/m ³ 343 mg/kg bw/day
Octamethylcyclotetrasiloxane	Inhalation			73 mg/m ³	73 mg/m ³
Bronopol	Inhalation Dermal	2,5 mg/m ³ 0,008 mg/kg bw	10,5 mg/m ³ 6 mg/kg bw	2,5 mg/m ³ 0,008 mg/kg bw/day	3,5 mg/m ³ 2 mg/kg bw/day
1,2-Benzisothiazol-3(2H)-one	Inhalation Dermal				6.81 mg/m ³ 0.966 mg/kg bw/day
2-Methylisothiazol-3(2H)-one	Inhalation	0,043 mg/m ³		0,021 mg/m ³	

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Ethanol	Inhalation Dermal	950 mg/m ³			114 mg/m ³ 206 mg/kg bw/day
Octamethylcyclotetrasiloxane	Oral			13 mg/m ³	87 mg/kg bw/day
Bronopol	Oral		0,5 mg/kg bw		13 mg/m ³ 3.7 mg/kg bw/day
	Inhalation	0,6 mg/m ³	1,8 mg/m ³	0,6 mg/m ³	0,18 mg/kg bw/day
	Dermal	0,004 mg/kg bw	2,1 mg/kg bw	0,004 mg/kg bw/day	0,6 mg/m ³ 0,7 mg/kg bw/day
1,2-Benzisothiazol-3(2H)-one	Inhalation Dermal				1.2 mg/m ³ 0.345 mg/kg bw/day
2-Methylisothiazol-3(2H)-one	Inhalation Oral	0,043 mg/m ³	0,053 mg/kg bw	0,021 mg/m ³	0,027 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Ethanol	Water	0,96 mg/l	0,79 mg/l	
	Sediment	3,6 mg/kg	2,9 mg/kg	
	Intermittent water			2,75 mg/l
	STP			580 mg/l
	Soil			0,63 mg/kg
Octamethylcyclotetrasiloxane	Oral			0,72 mg/kg food
	Water	0.0015 mg/l	0.00015 mg/l	
	Sediment	3 mg/kg	0.3 mg/kg	
	STP			10 mg/l
	Soil			0.54 mg/kg
Bronopol	Oral			41 mg/kg food
	Water	0.001 mg/l	0,001 mg/l	
	Sediment	0.021 mg/kg	0.009 mg/kg	
	STP			0,43 mg/l
	Soil			0.21 mg/kg



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1,2-Benzisothiazol-3(2H)-one	Water	0.00403 mg/l	0.000403 mg/l	1.03 mg/l 3 mg/kg
	Sediment	0.0499 mg/kg	0.00499 mg/kg	
	STP			
2-Octyl-2H-isothiazol-3-one	Soil			0.008 mg/kg
	Water	0.002 mg/l	0.0002 mg/l	
	Sediment	0.047 mg/kg	0.004 mg/kg	
	Soil			

8.2. Exposure controls

- Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.
- Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



- Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345. Suitable material: nitril. Indication of permeation breakthrough time: 4 hours.
- Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.
- Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: nitril. ± 0,5 mm. Indication of permeation breakthrough time: 4 hours.
- Eye protection : Wear appropriate safety glasses when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES *

9.1. Information on basic physical and chemical properties

Physical state	: Aerosol.	
Colour	: White.	
Odour	: Perfumed.	
Odour threshold	: Not known.	
pH	: 2 - 11,5	
Solubility in water	:	Active ingredients soluble. Propellant(s) not soluble.
Partition coefficient (n-octanol/water)	: Not applicable.	Contains surfactants. The O/W system emulsifies. Not measured. Not relevant for mixtures.
Flash point	: Not applicable.	Not measurable.
Flammability (solid, gas)	: Extremely flammable.	
Auto ignition temperature	: Not applicable.	Aerosol container explodes before reaching the auto-ignition point.
Boiling point/boiling range	: Not known.	Not measurable.
Melting point/melting range	: < 0 °C	
Explosive properties	:	Pressurised container: May burst if heated.
Explosion limits (% in air)	: Not known.	Lower explosion limit in air (%): 1,3 (Butane)
	:	Upper explosion limit in air (%): 19 (Ethanol)
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	: Not applicable.	Aerosol explodes before reaching the decomposition temperature.
Viscosity (20°C)	: Not known.	Not measurable.
Viscosity (40°C)	: Not known.	Not measurable.
Relative vapour density	: Not known	(air = 1)



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Relative density (20°C) : 0,86 g/ml
Particle characteristics : Not applicable. Liquid.

9.2. Other information

Other information : Not relevant.

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : Keep away from sources of ignition and sources of heat. See section 7.

10.5. Incompatible materials

Materials to avoid : Not applicable.

10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological research has been carried out on this product.

Inhalation

Acute toxicity : Not applicable.
Corrosion/irritation : Inhalation is unlikely to occur. Not classified - based on available data, the classification criteria are not met.
Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
Carcinogenicity : Not classified - based on available data, the classification criteria are not met.
Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 5000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.
Sensitisation : May cause sensitisation by skin contact. May produce an allergic reaction.
Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact



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Corrosion/irritation : Slight irritation possible. Not classified - based on available data, the classification criteria are not met.

Ingestion

Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.

Aspiration : Danger of aspiration is not expected. Contains a substance/substances with an aspiration hazard. Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea.

Carcinogenicity : Not classified - based on available data, the classification criteria are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Reprotoxicity : Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
1,2-Benzisothiazol-3(2H)-one	LD50 (oral)	670 mg/kg bw	OECD 401	Rat
	Skin irritation	Irritant		Rabbit
	Eye irritation	Severely irritant		Rabbit
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	NOAEL (oral)	30 mg/kg bw/d	OECD 408	Rat
	Genotoxicity - in vitro	Genotoxic	OECD 473	
	Genotoxicity - in vivo	250 mg/kg bw/d	OECD 474	Mouse
	NOAEL (development, oral)	Not teratogenic		
	NOAEL (fertility, oral)	24 mg/kg bw/d		Rat
	LD50 (dermal)	> 4115 mg/kg bw	OECD 402	Rat
	NOEL (carcinogenicity) - estimate	450 mg/kg.d	ATE	
	LC50 (inhalation) - estimate	210 mg/m3	ATE	
	2-Methylisothiazol-3(2H)-one	Skin irritation	Corrosive.	Patch test
Genotoxicity - in vivo		Not genotoxic		Rat
NOAEL (oral)		19 mg/kg bw/d	----	Rat
Outdoor cleaners (excludes stone, concrete and similar surfaces)		Non-irritant		Guinea pig
Eye irritation - estimate		Corrosive.		----
Mutagenicity		Negative	OECD 471	Salmonella typhimurium
Skin sensitisation		620 ug/cm2	OECD 429	Mouse
NOAEL (development, oral)		100 mg/kg bw/d	----	Rat
LD50 (dermal)		> 484,5 mg/kg bw	----	Rat
LD50 (oral)		120 mg/kg bw		Rat
2-Octyl-2H-isothiazol-3-one	LC50 (inhalation)	0,34 mg/m3	OECD 403	Rat
	LD50 (oral)	550 mg/kg bw	----	Rat
	LD50 (dermal)	690 mg/kg bw		Rabbit
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	Eye irritation	Severely irritant	----	Rabbit
	LC50 (inhalation) - estimate	270 mg/m3	ATE	
	LD50 (dermal) - estimate	311 mg/kg bw	ATE	



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	LD50 (oral) - estimate Mutagenicity	125 mg/kg bw Negative	ATE OECD 471	Salmonella typhimurium
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11.2. Information on other hazards

Endocrine disrupting properties : This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other information : Not applicable.

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Harmful to aquatic organisms. Calculated LC50 (fish): 34 mg/l. Calculated EC50 (waterflea): 9 mg/l. Contains 2 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence – degradability : May cause long-term adverse effects in the aquatic environment. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents.

12.3. Bioaccumulative potential

Bioaccumulative potential : Contains bioaccumulating substances.

12.4. Mobility in soil

Mobility : Not applicable.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

12.6. Endocrine disrupting properties

Endocrine disrupting properties : This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

Other adverse effects : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
Octamethylcyclotetrasiloxane	EC50 (waterflea)	> 0,015 mg/l	EPA OTS 797.1300	Daphnia magna
	NOEC (fish)	> 0,0044 mg/l.d	-----	Oncorhynchus mykiss
	LC50 (fish)	> 0,022 mg/l	-----	Oncorhynchus mykiss
	Primary aerobic biodegradation (%)	3,7 %	-----	
	NOEC (waterflea) - chronic	0,0017 mg/l.d		Daphnia magna
	IC50 (algae)	> 0,022 mg/l		Pseudokirchnerella subcapitata
	Log P(ow) BCF	5,1 12400		



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2-Octyl-2H-isothiazol-3-one	LC50 (fish)	0,14 mg/l	----	Pimephales promelas Daphnia magna
	EC50 (waterflea)	0,18 mg/l	----	
	Log P(ow)	2,9000		

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- Product residues : Recyclable metal container. Do not puncture or burn even after use. Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.
- Additional warning : Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.
- Waste water discharge : Do not dispose of into the environment, drains, sewers or water courses.
- European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.
- Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number or ID number

UN nr. : UN 1950 . For IATA only: ID 8000

14.2. UN proper shipping name

Transport name : AEROSOLS . For IATA only: CONSUMER COMMODITY
Transport name (IMDG, IATA) : AEROSOLS . For IATA only: CONSUMER COMMODITY

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : 2
Classification code : 5F
Packaging group : -
Danger label : 2,1
Tunnel restriction code : D



Other information : Not intended for carriage by tank-vessels on inland waterways.

IMDG (sea)

Class : 2,1
Packaging group : -
EmS (fire / spill) : F - D / S - U
Marine pollutant : No

IATA (air)

Class : 2,1



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ERG code : 9L

14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to the transport of this product. An IATA ID8000 Consumer Commodity package must bear an Air Limited Quantity marking and a Class 9 hazard label.

14.7. Maritime transport in bulk according to IMO instruments

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION *

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

Community regulations : Regulation (EU) No 2020/878 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC (aerosols) and other regulations. Regulation (EC) No 648/2004 (detergents). Directive 2008/98/EC (waste).

: In the UK it is recommended that all aerosols should be labelled on the back with the warning about the dangers of volatile solvent abuse. The label should contain the badge 'Solvent Abuse Can Kill Instantly' accompanied by the phrase 'Use only as directed'.

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

SECTION 16 OTHER INFORMATION *

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2020/878 dated 18 June 2020 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

List of abbreviations and acronyms that could be used (but not necessarily are used) in this safety data sheet:

ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	: Acute Toxicity Estimate
CLP	: Classification, Labeling & Packaging
CMR	: Carcinogenic, Mutagenic or toxic for Reproduction
EEC	: European Economic Community
GHS	: Globally Harmonized System of Classification and Labelling of Chemicals
IATA	: International Air Transport Association
IBC code	: The IMO International Code for construction and equipment of ships carrying dangerous chemicals in bulk.
IMDG	: International Maritime Dangerous Goods Code
LD50/LC50	: Lethal Dose/Concentration for 50% of a population
MAC	: Maximum Allowable Concentration
MARPOL	: International Convention for the Prevention of Pollution From Ships



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NO(A)EL	: No Observed (Adverse) Effect Level
OECD	: Organisation for Economic Co-operation and Development
PBT	: Persistent, Bioaccumulative and Toxic
PC	: Chemical product category
PT	: Product type
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	: Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	: Sewage Treatment Plant
SU	: Sector of Use
TWA/STEL	: Time-Weighted Average/Short Term Exposure Limit
UN	: United Nations
UFI	: Unique formula identifier
VOC	: Volatile Organic Compounds
vPvB	: Very Persistent and Very Bioaccumulative

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Flam. Aer. 1	: Expert judgement.
Skin Sens. 1/1A/1B	: Calculation method.
Aquatic Chronic 3	: Calculation method.

Full text of hazard classes mentioned in section 3:

Flam. Gas 1	: Flammable gas, category 1.
Flam. Liq. 2	: Flammable liquid, category 2.
Flam. Liq. 3	: Flammable liquid, category 3.
Acute Tox. 1	: Acute toxicity, category 1.
Acute Tox. 3	: Acute toxicity, category 3.
Acute Tox. 4	: Acute toxicity, category 4.
Skin Corr. 1A/B/C	: Skin corrosive, category 1A/B/C.
Skin Irrit. 2	: Skin irritation, category 2.
Eye Dam. 1	: Serious eye damage, category 1.
Eye Irrit. 2	: Eye irritation, category 2.
Skin Sens. 1/1A/1B	: Skin sensitization, category 1/1A/1B.
Press. Gas	: Gases under pressure.
STOT SE 3	: Specific target organ toxicity after single exposure, category 3.
Aquatic Chronic 1	: Hazardous to the aquatic environment — Chronic category 1.
Aquatic Acute 1	: Hazardous to the aquatic environment — Acute category 1.

Full text of H-phrases mentioned in section 3:

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.



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H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Advice on any training appropriate for workers: none.

Country / Language code : EC / EN
Number format : "," used as decimal separator.

End of safety data sheet.

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