



Safety data sheet

According to Regulation (EU) No 2015/830

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

1.1. Product identifier

Product name : SHELL TYRE REPAIR
Product code : CRX434, 30462; AT61B

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

Application : SU21 Consumer product. PC0 Other. Car maintenance. Tyre repair spray.

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 (1272/2008/EC) : Aerosols, category 1. Eye irritation, category 2. Specific target organ toxicity after single exposure, category 3. Reproductive toxicity, Additional category, Effects on or via lactation. Hazardous to the aquatic environment — Acute category 1. Hazardous to the aquatic environment — Chronic category 2.

Human health hazards : Causes serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking. May cause harm to breast-fed children. 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 : Very toxic to aquatic organisms. Toxic to aquatic life with long lasting effects.

Other information : Caution: Do not breathe spray. Use only in well-ventilated areas. Spray in short intervals for a short period only. Ventilate well after use. Harmful to house pets. Replace the gas in the tyre by air as soon as possible. User should inform repairman of flammable contents. Caution, propellant is flammable, replace only in open air.

2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :





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Signal word	: Danger	
H- and P-phrases	: H222 H319 H336 H229 H400 H411 H362 EUH066 P101 P102 P210 P211 P251 P263 P391 P410+P412 P501	Extremely flammable aerosol. Causes serious eye irritation. May cause drowsiness or dizziness. Pressurised container: May burst if heated. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. May cause harm to breast-fed children. Repeated exposure may cause skin dryness or cracking. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact during pregnancy/while nursing. Collect spillage. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. 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 H336 H229 H362 EUH066 P101 P102 P210 P211 P251 P263 P391 P410+P412 P501	Extremely flammable aerosol. May cause drowsiness or dizziness. Pressurised container: May burst if heated. May cause harm to breast-fed children. Repeated exposure may cause skin dryness or cracking. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact during pregnancy/while nursing. Collect spillage. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

- : Contains: n-Butyl acetate ; Butanone ; Acetone .
- : 5 per cent of the mixture consists of component(s) of unknown acute inhalation toxicity.

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%.

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.
Dimethyl ether	25 - < 50	115-10-6	204-065-8		01-2119472128-37
n-Butyl acetate	20 - < 25	123-86-4	204-658-1		01-2119485493-29
Butanone	10 - < 20	78-93-3	201-159-0		01-2119457290-43
Acetone	10 - < 20	67-64-1	200-662-2		01-2119471330-49
Alkanes, C14-17, chloro	2,5 - < 5	85535-85-9	287-477-0	PBT,vPvB	01-2119519269-33

Substance name	Hazard Class	H-phrases	Pictograms	
Dimethyl ether	Flam. Gas 1A; Press. Gas	H220; H280	GHS02; GHS04	
n-Butyl acetate	Flam. Liq. 3; STOT SE 3	H226; H336; EUH066	GHS02; GHS07	
Butanone	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3	H225; H319; H336; EUH066	GHS02; GHS07; GHS07	
Acetone	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3	H225; H319; H336; EUH066	GHS02; GHS07; GHS07	
Alkanes, C14-17, chloro	Lact.; Aquatic Acute 1; Aquatic Chronic 1	H362; H400; H410; EUH066	GHS09; GHS09	M (acute) = 100 M (chronic) = 1

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

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 : Move victim into fresh air. Consult a doctor if victim feels unwell.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation persists.
- Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor.
- Ingestion : Aerosol or mist: Ingestion is unlikely to occur.

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

Effects and symptoms

- Inhalation : May cause headache, drowsiness, dizziness and a feeling of sickness. May cause irritation to respiratory airways and coughing.
- Skin contact : Repeated exposure may cause skin dryness or cracking.
- Eye contact : Irritant. May cause redness and pain.
- 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



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Extinguishing media

- Suitable : Carbondioxide (CO₂). Alcohol resistant foam. Dry chemical. Water fog.
Not suitable : Water jet.

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 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. Wear full protective clothing and self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- 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. Collect aerosol cans in an approved container. Do not pierce aerosols. Wash away remainder with plenty of water and soap.

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. Do not breathe spray. Do not breathe vapour. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

- Storage : Keep frost-free, in a cool (< 35°), dry and well-ventilated place. Protect from sunlight and keep away from heat.



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Recommended packaging : Not applicable.

7.3. Specific end use(s)

Use : Use only as directed.

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
Dimethyl ether	EC	1920	-	-	MAC: DE
Dimethyl ether	GB	766	958	-	
n-Butyl acetate	GB	724	966	-	
Butanone	EC	600	900	-	
Butanone	GB	600	899	Skin; BMGV	
Acetone	EC	1210	-	-	
Acetone	GB	1210	3620	-	
Alkanes, C14-17, chloro		6	-	-	

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
Dimethyl ether	Inhalation	960 mg/m ³	960 mg/m ³	2420 mg/m ³	1894 mg/m ³
n-Butyl acetate	Inhalation				480 mg/m ³
Butanone	Dermal	1161 mg/kg bw/day			
	Inhalation		600 mg/m ³		
Acetone	Dermal	186 mg/kg bw/day			
	Inhalation	1210 mg/m ³			
Alkanes, C14-17, chloro	Inhalation	6,7 mg/m ³			
	Dermal	47,9 mg/kg bw/day			

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
Dimethyl ether	Inhalation	859,7 mg/m ³	859,7 mg/m ³	102,34 mg/m ³	471 mg/m ³
n-Butyl acetate	Inhalation				102,34 mg/m ³
Butanone	Dermal	412 mg/kg bw/day			
	Inhalation		106 mg/m ³		
Acetone	Oral	31 mg/kg bw/day			
	Dermal	62 mg/kg bw/day			
Alkanes, C14-17, chloro	Inhalation	200 mg/m ³			
	Oral	62 mg/kg bw/day			
Alkanes, C14-17, chloro	Inhalation	2 mg/m ³			
	Dermal	28,75 mg/kg bw/day			
	Oral	0,58 mg/kg bw/day			

Predicted no-effect concentration (PNEC):



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Chemical name	Route of exposure	Fresh water	Marine water	
Dimethyl ether	Water	0,155 mg/l	0,016 mg/l	
	Sediment	0,681 mg/kg	0,069 mg/kg	
	Intermittent water			1,549 mg/l
	STP			160 mg/l
n-Butyl acetate	Soil			0,045 mg/kg
	Water	0,18 mg/l	0,015 mg/l	
	Sediment	0,981 mg/kg	0,0981 mg/kg	
	Intermittent water			0,36 mg/l
Butanone	STP			35,6 mg/l
	Soil			0,0903 mg/kg
	Water	55,8 mg/l	55,8 mg/l	
	Sediment	284,74 mg/kg	284,7 mg/kg	
Acetone	Intermittent water			55,8 mg/l
	STP			709 mg/l
	Soil			22,5 mg/kg
	Oral			1000 mg/kg food
Alkanes, C14-17, chloro	Water	10,6 mg/l	1,06 mg/l	
	Sediment	30,4 mg/kg	3,04 mg/kg	
	Intermittent water			21 mg/l
	STP			100 mg/l
	Soil			29,5 mg/kg
	Water	0,001 mg/l	0,002 mg/l	
	Sediment	13 mg/kg	2,6 mg/kg	
	STP			80 mg/l
	Soil			11,9 mg/kg
	Oral			10 mg/kg food

8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals. See Directive 2004/37/EG on the protection of workers from the risks related to exposure to carcinogens or mutagens at work. May cause harm to breast-fed children.

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 : Use of specific protective industrial clothing is not required for momentary use. Wear suitable protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345 in case of frequent or prolonged use and in case of large scale exposure. Suitable material: butyl. Indication of permeation breakthrough time: 1 hour.

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 : Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of frequent or prolonged use and in case of large scale exposure. Suitable material: butyl. ± 0,5 mm. Indication of permeation breakthrough time: 1 hour.

Eye protection : Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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9.1. Information on basic physical and chemical properties

Appearance : Aerosol.



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Colour	: White.	
Odour	: Characteristic.	
Odour threshold	: Not known.	
pH	: Not applicable.	Waterfree product.
Solubility in water	:	Active ingredients not soluble. Propellant(s) soluble.
Partition coefficient (n-octanol/water)	: Not known.	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)	: 1,2 - 18,6	
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.
Vapour pressure (20°C)	: 350000 Pa	
Vapour density (20°C)	: > 1	(air = 1)
Relative density (20°C)	: 0,79 g/ml	
Evaporation rate	: Not known.	Not relevant. Mixture of gases, liquids and solids.

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 : May include and are not limited to: Hydrogen halogenide(s) (e.g. HF, HCl).

SECTION 11 TOXICOLOGICAL INFORMATION

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



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No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 5 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause damage to organs. Target organ(s): Central nervous system. Effect(s): Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, lightheadedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.
- Corrosion/irritation : May cause irritation to respiratory airways and coughing. 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 : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met. Does not contain carcinogenic substances.
- 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: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Slight irritation possible. Repeated exposure may cause skin dryness or cracking. Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain skin sensitisers. 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.

Eye contact

- Corrosion/irritation : Irritant.

Ingestion

- Acute toxicity : Aerosol or mist: Ingestion is unlikely to occur. Calculated LD50: > 2382 mg/kg.bw. Ingredients of unknown toxicity: 31 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Aspiration : Not expected to be an aspiration hazard. Contains a substance/substances with an aspiration hazard. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Aerosol or mist: Ingestion is unlikely to occur. May cause a feeling of sickness, vomiting and diarrhoea.
- Carcinogenicity : Aerosol or mist: Ingestion is unlikely to occur. Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Aerosol or mist: Ingestion is unlikely to occur. Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.
- Reprotoxicity : Aerosol or mist: Ingestion is unlikely to occur. 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
n-Butyl acetate	NOAEL (inhalation)	2395 mg/m3		
	Skin sensitisation	Not sensitizing		
	Skin irritation	Slightly irritant	OECD 404	Rabbit
	Eye irritation	Slightly irritant	OECD 405	Rabbit
	LC50 (inhalation)	> 21100 mg/m3	OECD 403	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	LD50 (dermal)	> 14100 mg/kg bw	OECD 402	Rabbit
	LD50 (oral)	10700 mg/kg bw	-----	Rat



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Butanone	NOAEL (fertility, inh.)	> 3000 mg/m3	OECD 415	Rat
	Genotoxicity - in vitro	Not genotoxic	OECD 473	
	NOAEL (developmental toxicity, inh.)	> 7230 mg/m3	OECD 414	Rat
	LD50 (oral)	2737 mg/kg bw	-----	Rat
	LD50 (dermal)	6400 mg/kg bw		Rabbit
	LC50 (inhalation)	> 5000 mg/m3		Rat
	NOAEL (oral)	2500 mg/kg bw/d		Rat
	Skin sensitisation	Not sensitizing		Guinea pig
	Skin irritation	Moderately irritant		Rabbit
	Eye irritation	Highly irritant		Rabbit
	Genotoxicity - in vitro	Not genotoxic	OECD 473	-----
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOAEL (developmental toxicity, inh.)	2955 mg/m3	OECD 414	Rat
	NOAEL (fertility) - estimate	1644 mg/kg.d		Rat
	NOAEL (inhalation)	14790 mg/m3	OECD 413	Rat
	Acetone	Inhalation sensitisation - estimate	Not sensitizing	-----
Skin sensitisation		Not sensitizing	OECD 406	Guinea pig
NOAEL (oral)		900 mg/kg bw/d	OECD 408	Rat
NOAEL (inhalation)		22500 mg/m3		Rat
Skin irritation		Non-irritant	-----	Guinea pig
Eye irritation		Moderately irritant	OECD 405	Rabbit
LD50 (dermal)		> 15688 mg/kg bw		Rabbit
NOAEL (fertility, oral)		900 mg/kg bw/d		Rat
Mutagenicity		Negative	OECD 471	Salmonella typhimurium
Genotoxicity - in vitro		Not genotoxic	OECD 476	Mouse
Genotoxicity - in vivo		Not genotoxic		Mouse
LD50 (oral)		5800 mg/kg bw	-----	Rat
NOEL (carcinogenicity, inh.)		Not carcinogenic		
NOEL (carcinogenicity, oral)		Not carcinogenic		
NOAEL (developmental toxicity, inh.)		5300 mg/m3	OECD 414	Rat
NOEL (carcinogenicity, dermal)		Not carcinogenic	-----	Mouse
Alkanes, C14-17, chloro		LC50 (inhalation) - estimate	50100 mg/m3	-----
	LD50 (oral)	> 4000 mg/kg bw	-----	Rat
	NOAEL (oral)	10 mg/kg bw/d		Rat
	Skin sensitisation	Not sensitizing		Guinea pig
	Skin irritation	Slightly irritant	OECD 404	Rabbit
	Eye irritation	Slightly irritant	-----	Rabbit
	NOAEL (development, oral)	Not teratogenic	-----	
	NOAEL (fertility) - estimate	Not reprotoxic	-----	-----
	LC50 (inhalation) - estimate	> 3300 mg/m3	Read across	Rat
	NOAEL (fertility, oral)	100 mg/kg bw/d	OECD 421	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium



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Genotoxicity - in vivo > 5000 mg/kg bw/d OECD 475 Rat

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Very toxic to aquatic organisms. Calculated LC50 (fish): 70 mg/l. Calculated EC50 (waterflea): < 1 mg/l. Contains 0 % 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.

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. Other adverse effects

Other information : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
Alkanes, C14-17, chloro	EC50 (waterflea)	0,0059 mg/l	OECD 202	Daphnia magna
	LC50 (fish)	> 5000 mg/l	OECD 203	Alburnus alburnus
	Ultimate aerobic biodegradation (%)	64 %	OECD 301 D	
	NOEC (waterflea) - chronic	0,01 mg/l.d	OECD 202	Daphnia magna
Alkanes, C14-17, chloro	Log P(ow)	7,0000		
Alkanes, C14-17, chloro	BCF	1087		

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.

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



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14.1. UN number or ID number

UN nr. : UN 1950

14.2. UN proper shipping name

Transport name : AEROSOLS
Transport name (IMDG, IATA) : AEROSOLS

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 + the "environmentally hazardous substance" mark.
Tunnel restriction code : D



Other information : Not intended for carriage by tank-vessels on inland waterways. Packagings with a quantity of 5 l or less for liquids or 5 kg, or less for solids need not be marked with the environmentally hazardous substance mark.

IMDG (sea)

Class : 2,1
Packaging group : -
EmS (fire / spill) : F - D / S - U
Marine pollutant : Yes
Other information : Packagings with a quantity of 5 l or less for liquids or 5 kg, or less for solids need not be marked with the environmentally hazardous substance mark.

IATA (air)

Class : 2,1

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.

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 2015/830 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC (aerosols) and other regulations.



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: 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 2015/830 dated 28 May 2015 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 (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	: International Bulk Chemical Code
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
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
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.
Eye Irrit. 2	: Calculation method.
Lact.	: Calculation method.
STOT SE 3	: Calculation method.



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Aquatic Chronic 2 : Calculation method.
Aquatic Acute 1 : 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.
Eye Irrit. 2 : Eye irritation, category 2.
Press. Gas : Gases under pressure.
Lact. : Reproductive toxicity, Additional category, Effects on or via lactation.
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.
H319 : Causes serious eye irritation.
H336 : May cause drowsiness or dizziness.
H362 : May cause harm to breast-fed children.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
EUH066 : Repeated exposure may cause skin dryness or cracking.

Advice on any training appropriate for workers: none.

Number format : "," used as decimal separator.

End of safety data sheet.

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