



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 START GAS
Product code : U1472, AT08S; AT07S; 30431; 09727038

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

Application : SU21 Consumer product. PC0 Other. Other products for chemical or technical processes.

1.3. Details of the supplier of the safety data sheet

Supplier : Kemetyl Polska Sp. z o. o.
Al. Jerozolimskie 146
02-305 Warszawa, Poland
Telephone : +48 22 822 5390
E-mail : msds@kemetyl.com
Website : www.kemetyl.pl

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:
PL - Telephone : +48 22 822 5390 (During office hours only)
EMERGENCY TELEPHONE NUMBER (for DOCTORS only):
Poisons Information Center +354 543 22 22 (24/7)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification (1272/2008/EC) : Aerosols, category 1. Skin irritation, category 2. Aspiration hazard, category 1. Specific target organ toxicity after single exposure, category 3. Hazardous to the aquatic environment — Chronic category 3.

Human health hazards : May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. 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.

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.

2.2. Label elements

Label elements (1272/2008/EC):
Hazard pictograms :





Kemetyl

Safety data sheet

According to Regulation (EU) No 2020/878

Signal word	: Danger	
H- and P-phrases	: H222 H229 H304 H315 H336 H412 P101 P102 P210 P211 P251 P271 P301+P310 P331 P405 P410+P412 P501	Extremely flammable aerosol. Pressurised container: May burst if heated. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. 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. Use only outdoors or in a well-ventilated area. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Store locked up. 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 H229 H304 H336 H412 P101 P102 P210 P211 P251 P271 P301+P310 P331 P405 P410+P412 P501	Extremely flammable aerosol. Pressurised container: May burst if heated. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. 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. Use only outdoors or in a well-ventilated area. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Store locked up. 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: Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics .

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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Kemetyl

Safety data sheet

According to Regulation (EU) No 2020/878

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
Butane	20 - 30	106-97-8	203-448-7		
Dimethoxymethane	20 - 30	109-87-5	203-714-2		01-2119664781-31
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	10 - 20	-----	920-750-0		01-2119473851-33
Propane	10 - 20	74-98-6	200-827-9		
Tert-butyl methyl ether	1 - 10	1634-04-4	216-653-1		01-2119452786-27
Isobutane	1 - 10	75-28-5	200-857-2		

Substance name	Hazard Class	H-phrases	Pictograms
Butane	Flam. Gas 1A; Press. Gas	H220; H280	GHS02; GHS04
Dimethoxymethane	Flam. Liq. 2	H225	GHS02
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Flam. Liq. 2; Asp. Tox. 1; STOT SE 3; Aquatic Chronic 2	H225; H304; H336; H411; EUH066	GHS02; GHS07; GHS08; GHS09
Propane	Flam. Gas 1A; Press. Gas	H220; H280	GHS02; GHS04
Tert-butyl methyl ether	Flam. Liq. 2; Skin Irrit. 2	H225; H315	GHS02; GHS07
Isobutane	Flam. Gas 1A; Press. Gas	H220; H280	GHS02; GHS04

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.
- 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 if irritation persists.
- 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 : Irritant. May cause redness. Repeated exposure may cause skin dryness or cracking.
- Eye contact : May cause stinging of eyes and redness.
- Ingestion : May cause a feeling of sickness, vomiting and diarrhoea. May cause lung damage, sore throat and lack of breath.

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

Note to physicians : None known.



Safety data sheet

According to Regulation (EU) No 2020/878

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 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

- 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.



Kemetyl

Safety data sheet

According to Regulation (EU) No 2020/878

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. Keep away from food, drink and animal feedingstuffs.

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
Butane	GB	1450	1810	-	MAC: UK
Dimethoxymethane	GB	1450	1810	-	MAC: various EU Member States
		3160	3950	-	
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		1200	-	CEFIC-HSPA	
Propane		1800	-		MAC: BG, PL, CH, SL, etc
Tert-butyl methyl ether	EC	183,5	367	-	Directive 2009/161/EU
	GB	183,5	367	-	
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
Dimethoxymethane	Dermal				17,9 mg/kg bw/day
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Inhalation				126,6 mg/m ³
	Inhalation				2035 mg/m ³
Tert-butyl methyl ether	Dermal				773 mg/kg bw/day
	Inhalation	357 mg/m ³			178,5 mg/m ³
	Dermal				5100 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
Dimethoxymethane	Dermal				18,1 mg/kg bw/day
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Inhalation				31,5 mg/m ³
	Oral				18,1 mg/kg bw/day
	Inhalation				608 mg/m ³



Kemetyl

Safety data sheet

According to Regulation (EU) No 2020/878

Tert-butyl methyl ether	Dermal	214 mg/m3			699 mg/kg bw/day
	Oral				699 mg/kg bw/day
	Inhalation				53,6 mg/m3
	Dermal				3570 mg/kg bw/day
	Oral				7,1 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Dimethoxymethane	Water	14,577 mg/l	1,477 mg/l	
	Sediment	13,135 mg/kg	1,3135 mg/kg	
	STP			10 mg/l
Tert-butyl methyl ether	Soil			4,6538 mg/kg
	Water	5,1 mg/l	0,26 mg/l	
	Sediment	23 mg/kg	1,17 mg/kg	
	Intermittent water			47,2 mg/l
	STP			71 mg/l
	Soil			1,56 mg/kg

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 : 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: 6 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: butyl. ± 0,5 mm. Indication of permeation breakthrough time: 6 hours.

Eye protection : Wear appropriate safety glasses 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

Physical state	: Aerosol.	
Colour	: Colourless.	
Odour	: Characteristic.	
Odour threshold	: Not known.	
pH	: Not applicable.	Waterfree product.
Solubility in water	:	Active ingredients not soluble. Propellant(s) not soluble.
Partition coefficient (n-octanol/water)	: Not known.	Not measured. Not relevant for mixtures.
Flash point	: Not applicable.	Not measurable.



Kemetyl

Safety data sheet

According to Regulation (EU) No 2020/878

Flammability (solid, gas)	: Extremely flammable.	Contains \geq 85% flammable components and has a heat of combustion \geq 30 kJ/g.
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	: < -20 °C	
Explosive properties	:	Pressurised container: May burst if heated.
Explosion limits (% in air)	: 0,9 - 17,6	
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	
Relative vapour density	: > 1	(air = 1)
Relative density (20°C)	: 0,65 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



Kemetyl

Safety data sheet

According to Regulation (EU) No 2020/878

- Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: < 1 %. 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 : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.
- Skin contact
- Acute toxicity : Calculated LD50: > 3452 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 : Irritant. May cause redness. Prolonged contact may dry out and defat the skin.
- Sensitisation : Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.
- Eye contact
- Corrosion/irritation : Slight irritation possible. Not classified - based on available data, the classification criteria are not met.
- Ingestion
- Acute toxicity : Aerosol or mist: Ingestion is unlikely to occur. Calculated LD50: > 1400 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 : Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal. If swallowed, if any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 38.3° C, shortness of breath, chest congestion or continued coughing or wheezing.
- Corrosion/irritation : Aerosol or mist: Ingestion is unlikely to occur. May cause a feeling of sickness, stomachache, vomiting and diarrhoea.
- Carcinogenicity : Aerosol or mist: Ingestion is unlikely to occur. Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Aerosol or mist: Ingestion is unlikely to occur. Not expected to be mutagenic. 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
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	LD50 (dermal)	> 2920 mg/kg bw	OECD 402	Rat
	LC50 (inhalation)	> 23300 mg/m3	OECD 403	Rat
	LD50 (oral)	> 5840 mg/kg bw	OECD 401	Rat
	Eye irritation	Non-irritant		
	Skin irritation	Non-irritant		
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	Genotoxicity - in vitro	Not genotoxic	OECD 473	



Kemetyl

Safety data sheet

According to Regulation (EU) No 2020/878

Tert-butyl methyl ether	NOAEL (development) - estimate	Not teratogenic	Read across	
	NOAEL (inhalation)	5800 mg/m3	OECD 413	Rat
	NOAEL (fertility) - estimate	Not reprotoxic	Read across	
	Inhalation sensitisation	Not sensitizing	-----	-----
	Skin sensitisation	Not sensitizing	-----	-----
	NOEL (carcinogenicity) - estimate	Not carcinogenic	-----	-----
	NOAEL (inhalation)	2880 mg/m3		Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	LD50 (oral)	> 2000 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	Rat
	Skin irritation	Moderately irritant	OECD 404	Rabbit
	Eye irritation	Slightly irritant	OECD 405	Rabbit
	NOAEL (oral)	300 mg/kg bw/d	OECD 408	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster
	Genotoxicity - estimate	Not genotoxic		Rat
NOAEL (fertility, inh.)	Not reprotoxic		Rat	
NOAEL (developmental toxicity, inh.)	Not teratogenic		Rat	

11.2. Information on other hazards

Endocrine disrupting properties : Not applicable.
 Other information : Not applicable.

SECTION 12 ECOLOGICAL INFORMATION

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12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Harmful to aquatic organisms. Calculated LC50 (fish): 17 mg/l. Calculated EC50 (waterflea): 26 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. The surfactants contained in this preparation do not comply with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents. This product shall not be used in cleaners.

12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

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 : Not applicable.

12.7. Other adverse effects

Other adverse effects : Not applicable.



Kemetyl

Safety data sheet

According to Regulation (EU) No 2020/878

Ecological information:

Chemical name	Property		Method	Test animal
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	EC50 (waterflea)	4,6 mg/l	OECD 202	Daphnia magna
	IC50 (algae)	10 mg/l	OECD 201	Pseudokirchnerella subcapitata
	LC50 (fish)	> 3 mg/l	OECD 203	Oncorhynchus mykiss
	NOEC (waterflea) - chronic	1 mg/l.d	OECD 211	Daphnia magna
	NOEC (fish)	0,574 mg/l.d		Oncorhynchus mykiss
	Ultimate aerobic biodegradation (%)	> 60 %	Read across	
	Log P(ow)	4,85		

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

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





Kemetyl

Safety data sheet

According to Regulation (EU) No 2020/878

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
ERG code : 9L
Packaging group : -

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. 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 (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



Kemetyl

Safety data sheet

According to Regulation (EU) No 2020/878

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
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 Irrit. 2	: Calculation method.
STOT SE 3	: Calculation method.
Asp. Tox. 1	: Expert judgement.
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.
Skin Irrit. 2	: Skin 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.
Asp. Tox. 1	: Aspiration hazard, category 1.
Aquatic Chronic 2	: Hazardous to the aquatic environment — Chronic category 2.

Full text of H-phrases mentioned in section 3:

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	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.



Kemetyl

Safety data sheet

According to Regulation (EU) No 2020/878

End of safety data sheet.

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