

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 Product code		SHELL PREMIUM ANTIFREEZE LONGLIFE READY TO USE 774 D-F CRX512p, 09493020; 09493000; 09493209; PBT740; PBT749; PBT44Z
1.2. Relevant identified us	ses	of the substance or mixture and uses advised against
Application	:	SU22 Professional use. For industrial or institutional use. PC4 Antifreeze and de-id

SU22 Professional use. For industrial or institutional use. PC4 Antifreeze and de-icing products. Coolant.

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)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification : Acute toxicity, category 4. Specific target organ toxicity — repeated exposure, category 2. (1272/2008/EC)

Human health hazards	:	Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.
Physical/chemical hazards	:	Not classified as dangerous according to statutory EC-Directives.
Environmental hazards	:	Not classified as dangerous according to statutory EC-Directives.

2.2. Label elements

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



Signal word

H- and P-phrases

: Warning

H302	Harmful if sw
H373 kidneys	May cause d
P260 vapour	Do not breat
P264	Wash hands
P314	Get medical
P501	Dispose of c

vallowed. damage to kidneys through prolonged or repeated exposure. the vapours. thoroughly after handling. advice/attention if you feel unwell. contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

: Contains: Ethanediol .



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2.3. Other hazards

Other information

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

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.		EC number	Remark	REACH nr.
Ethanediol	25 - < 50	107-21-	1	203-473-3		01-2119456816-28
Sodium 2-ethylhexanoate	1 - < 3	19766-8	9-3	243-283-8		
Substance name	Hazard Class		H-phra	ses	Pictograms	
Ethanediol	Acute Tox. 4; S	Acute Tox. 4; STOT RE		H373	GHS07; GHS08	
	2					
Sodium 2-ethylhexanoate	Repr. 2		H361d		GHS08	

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.
Eye contact Ingestion	 Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor if irritation persists. 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 immediately if victim feels unwell.

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

Effects and symptoms	
Inhalation	: May cause headache, dizziness and a feeling of sickness.
Skin contact	: May cause dry skin.
Eye contact	: May cause stinging of eyes and redness.
Ingestion	: May cause a feeling of sickness, vomiting and diarrhoea. May cause a feeling of sickness, malaise, shortness of breath and lack of breathe.

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

Note to physicians General

: Risk of metabolic acidosis.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media Suitable : Carbondioxide (CO2). Alcohol resistant foam. Dry chemical. Water fog.



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Not suitable : Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards : None known. Hazardous thermal : Carbon monoxide may be evolved if incomplete combustion occurs. decomposition products

5.3. Advice for firefighters

Special protective : Use adequate respiratory equipment in case of insufficient ventilation. equipment for fire-fighters

ACCIDENTAL RELEASE MEASURES **SECTION 6**

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. 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. In case of large spills: contain with dike. 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

: Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an Methods for cleaning up authorised waste collection point. 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.
	Do not breathe vapour. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage	: Keep in a cool, dry and well-ventilated place. Keep away from oxidizing agents. Keep away from food, drink and animal feedingstuffs.
Recommended packaging Non recommended packaging	 Keep only in the original container. Steel (except stainless steel).

7.3. Specific end use(s)

Use

: Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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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			STEL 15 min (mg/m3)	Comments	Source
Ethanediol		<u>` </u>	<u>, , , , , , , , , , , , , , , , , , , </u>	Skin	Directive 2000/39/EC
Ethanediol	GB	52	104	Skin	

Derived no-effect level (DNEL) for workers:

Chemical name Route of		DNEL, short-term		DNEL, long-term			
	exposure						
		Local effect	Systemic effect	Local effect	Systemic effect		
Ethanediol	Dermal		1		106 mg/kg bw/day		
	Inhalation			35 mg/m3			
Sodium 2-ethylhexanoate	Inhalation				14 mg/m3		
	Dermal				2 mg/kg bw/day		

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of	DNEL, short-te	DNEL, short-term		DNEL, long-term	
	exposure					
		Local effect	Systemic effect	Local effect	Systemic effect	
Ethanediol	Dermal				53 mg/kg bw/day	
	Inhalation			7 mg/m3		
Sodium 2-ethylhexanoate	Inhalation				3,5 mg/m3	
	Dermal				1 mg/kg bw/day	
	Oral				1 mg/kg bw/day	

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Ethanediol	Water	10 mg/l	1 mg/l	
	Sediment	20,9 mg/kg		
	Intermittent water			10 mg/l
	STP			199,5 mg/l
	Soil			1,53 mg/kg
Sodium 2-ethylhexanoate	Water	0,36 mg/l	0,036 mg/l	
	Sediment	0,301 mg/kg	0,0301 mg/kg	
	Intermittent water			0,493 mg/l
	STP			71,7 mg/l
	Soil			0,0579 mg/kg

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.
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 under normal conditions of use. Suitable material: neoprene.



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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 suitable gloves in case of frequent or prolonged use and in case of large scale exposure in accordance with EN 374. Suitable material: neoprene. 0,38 mm. Indication of permeation breakthrough time: 6 hours.
Eye protection	: Wear appropriate safety glasses when there is danger of possible eye contact.
SECTION 9 PHYSICA	A AND CHEMICAL PROPERTIES *

9.1. Information on basic physical and chemical properties

Physical state Colour Odour Odour threshold pH	 Liquid. Red. Characteristic. Not known. 8,5 	
Solubility in water Partition coefficient (n-oc-	: Soluble. : Not known.	Not measured. Not relevant for mixtures
tanol/water)	. NOLKHOWH.	Not measured. Not relevant for mixtures.
Flash point	: > 100 °C	Closed cup.
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	: > 398 °C	
Boiling point/boiling range	: 100 °C	
Melting point/melting range	: -38 °C	
Explosive properties	: Not an explosive.	
Explosion limits (% in air)	: Not known.	Lower explosion limit in air (%): 3,2 (Ethanediol) Upper explosion limit in air (%): 15,3 (Ethanediol)
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	: Not applicable.	
Viscosity (20°C)	: 1,3 mm2/sec	
Viscosity (40°C)	: 1 mm2/sec	
Vapour pressure (20°C)	: 2300 Pa	
Relative vapour density	: >1	(air = 1)
Relative density (20°C)	: 1,05 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 st	ability
Stability	: Stable under normal conditions.
10.3. Possibility o	of hazardous reactions
Reactivity	: No other hazardous reactions known.
10.4. Conditions	to avoid

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Kemetyl

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition : Not known. products

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	 Calculated LC50: > 5,053 mg/l. Ingredients of unknown toxicity: 3 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause headache, dizziness and a feeling of sickness.
Corrosion/irritation	: 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.
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	Prolonged contact may dry out and defat the skin. 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	: Slight irritation possible. Not classified - based on available data, the classification criteria are not met.
Ingestion	
Acute toxicity	 May cause signs of intoxication and reduced consiousness after exposure to high concentrations. May cause a feeling of sickness, malaise, shortness of breath and lack of breathe. Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: 500 mg/kg.bw.
Aspiration	: Not classified - based on available data, the classification criteria are not met. Does not contain substances with an aspiration hazard.
Chronic toxicity	: Possibility of organ or organ system damage due to prolonged exposure. Target organ(s): Kidneys. Effect: May cause nephrolithiasis.
Corrosion/irritation	: May cause a feeling of sickness, vomiting and diarrhoea.
Carcinogenicity	: Does not contain carcinogenic substances. 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 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.



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Toxicological information:

Chemical name	Property		Method	Test animal
Ethanediol	NOAEL (development,	250 mg/kg bw/d		Rat
	oral)			
	LD50 (dermal)	10600 mg/kg bw		
	Mutagenicity	Not mutagenic		
	Genotoxicity - in vitro	Not genotoxic		
	Skin irritation	Non-irritant		Rabbit
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	NOEL (inhalation)	71 mg/m3		
	LD50 (oral)	7712 mg/kg bw		Rat
	Eye irritation	Non-irritant		Rabbit
	LD50 (oral) - estimate	500 mg/kg bw		
	LC50 (inhalation)	> 2500 mg/m3		Rat
	LC50 (inhalation) -	> 5000 mg/m3		
	estimate	-		
	NOAEL (oral)	150 mg/kg bw/d	OECD 452	Rat
	NOEL (carcinogenicity,	1000 mg/kg bw/d		Rat
	oral)			

Other information

: Ethanediol: There is a marked difference in acute oral toxicity between rodents and man, man being more susceptible than rodents. The estimated fatal dose for man is 100 millilitres (1/2 cup).

11.2. Information on other hazards

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

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

- Ecotoxicity
- : Calculated LC50 (fish): 4555 mg/l. Calculated EC50 (waterflea): 201 mg/l. Contains 0 % of components with unknown hazards to the aquatic environment. Not classified - based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Persistence – degradability : No specific information known.

12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : If product enters soil, it will be highly mobile and may contaminate groundwater.

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	: Not applicable.
properties	



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12.7. Other adverse effects

Other adverse effects : Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product residues	: Do not dispose empty pack with waste produced by households. Containers should be recycled or re-used. Treat product residues and non-empty pack as hazardous waste.
Additional warning	: None.
Waste water discharge	: Do not dispose of into the environment, drains, sewers or water courses. Avoid discharge of waste water arising from tank cleaning to the environment.
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.

: None.

14.2. UN proper shipping name

Transport name : Not regulated.

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

=	
ADR/RID/ADN (road/railv Class	vay/inland waterways) : This product is not classified according to ADR/RID/ADN.
Other information	: Exempted according to 2.2.3.1.5 (viscous substance exemption).
IMDG (sea) Class Marine pollutant Other information	 This product is not classified according to IMDG. No Exempted according to 2.3.2.5 (viscous substance exemption).
IATA (air) Class	: This product is not classified according to IATA.
14.6. Special precaution	s for user
.	

Other information : Country specific variations may apply.

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



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Community regulations : Regulation (EU) No 2020/878 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations. Directive 2008/98/EC (waste).

15.2. Chemical safety assessment

Chemical safety : Not applicable. assessment

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			
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:

Acute Tox. 4	: Calculation method.
STOT RE 2	: Calculation method.

Full text of hazard classes mentioned in section 3:



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Acute Tox. 4	: Acute toxicity, category 4.				
STOT RE 2	: Specific target organ toxicity — repeated exposure, category 2.				
Full text of H-phrases	mentioned in section 3:				
H302	Harmful if swallowed.				
H361d	Suspected of damaging the unborn child.				
H373	May cause damage to organs through prolonged or repeated exposure.				
Advice on any training appropriate for workers: none.					
Number format	: "," used as decimal separator.				

End of safety data sheet.

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