

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 PREMIUM ANTIFREEZE LONGLIFE CONCENTRATE 774 D-F

Product code : CRX511p, 09492020; 09492055; 09492209; PBT737; PBT758; PBT738; PBT77Z

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

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

PC4 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) Reproductive toxicity, category 2.

Human health hazards : Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.

Suspected of damaging the unborn child.

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 : Warning

H- and P-phrases : H302 Harmful if swallowed.

H373 kidneys May cause damage to kidneys through prolonged or repeated exposure.

H361d Suspected of damaging the unborn child. P201 Obtain special instructions before use.

P260 vapour Do not breathe vapours.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

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P501

Dispose of contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

: Contains: Ethanediol ; Sodium 2-ethylhexanoate .

2.3. Other hazards

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

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture. Information on hazardous substances:

mornation on nazardodo dabotanoco.					
Substance name	Concentration	CAS nr.	EC number	Remark	REACH nr.
	(w/w) (%)				
Ethanediol	> 75	107-21-1	203-473-3		01-2119456816-28
Sodium 2-ethylhexanoate	3 - < 10	19766-89-3	243-283-8		

Substance name	Hazard Class	H-phrases	Pictograms
Ethanediol	Acute Tox. 4; STOT RE	H302; 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

: Move victim into fresh air. Consult a doctor if victim feels unwell. Inhalation

Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries

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 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.

May cause stinging of eyes and redness. Eye contact

May cause a feeling of sickness, vomiting and diarrhoea. May cause a feeling of sickness, malaise, Ingestion

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**

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5.1. Extinguishing media

Extinguishing media

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

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

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. 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

Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an

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. Avoid splashing. Wear protective clothing.

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

Keep only in the original container. Steel (except stainless steel).

packaging

7.3. Specific end use(s)

Use : Use only as directed.

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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	STEL 15 min	Comments	Source
		(mg/m3)	(mg/m3)		
Ethanediol	EC	52	104	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				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-term		DNEL, long-term		
	exposure					
	Local effect Systemic effect		Local effect	Systemic effect		
Ethanediol	Dermal				53 mg/kg bw/day	
	Inhalation	ĺ		7 mg/m3		
Sodium 2-ethylhexanoate	Inhalation				3,5 mg/m3	
İ	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

: Use only in well-ventilated areas. Comply with standard precautionary measures for working Engineering measures

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.

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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: 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 : 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: nitril. ± 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

9.1. Information on basic physical and chemical properties

Physical state : Liquid. Colour Red.

Odour Characteristic. Odour threshold Not known. рΗ 8.6

Solubility in water Soluble. Partition coefficient (n-oc-Not known.

tanol/water)

Flash point : 115 °C Closed cup.

Flammability (solid, gas) Not applicable. Liquid. See flashpoint.

Auto ignition temperature > 398 °C 180 °C Boiling point/boiling range

-18 °C Melting point/melting range:

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)

Not measured. Not relevant for mixtures.

Oxidising properties Not applicable. Does not contain oxidizing substances.

Decomposition temperature: Not applicable.

Viscosity (20°C) 1 mm2/sec (1 mm2/sec = 1 cSt)

Viscosity (40°C) 1 mm2/sec

Vapour pressure (20°C) Not known.

Relative vapour density : > 1 (air = 1)

Relative density (20°C) : 1,1 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

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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 : 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: > 2,689 mg/l. Ingredients of unknown toxicity: 4 %. 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: > 2000 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.

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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.

: Possible risk of harm to the unborn child. Fertility: not expected to be reprotoxic. Fertility: Not Reprotoxicity

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

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
	1 *	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
	· · · ·	1000 mg/kg bw/d		Rat
	oral)			
Sodium 2-ethylhexanoate	LOAEL (development)	1400 mg/kg bw/d		Rat
,		2043 mg/kg bw	Read across	
	LD50 (dermal) -	> 2000 mg/kg bw	Read across	
	estimate			
	Mutagenicity - estimate	Negative	Read across	
	Genotoxicity - estimate	1 -	Read across	
	Skin irritation - estimate		Read across	
	Eye irritation - estimate		Read across	
	1 -	100 mg/kg.d	Read across	
	- estimate			
	NOAEL (fertility) -	300 mg/kg.d	Read across	
	estimate			
	Skin sensitisation -	Not sensitizing	Read across	
	estimate			

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

properties

: Not applicable.

Other information : Not applicable.

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

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Ecotoxicity : Calculated LC50 (fish): 2422 mg/l. Calculated EC50 (waterflea): 107 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

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

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

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.

Do not dispose of into the environment, drains, sewers or water courses. Avoid discharge of waste Waste water discharge

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

: Not regulated. Transport name

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

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

: This product is not classified according to ADR/RID/ADN. Class

IMDG (sea)

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Class : This product is not classified according to IMDG.

Marine pollutant : No

IATA (air)

Class : This product is not classified according to IATA.

14.6. Special precautions 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

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

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PT Product type

Registration, Evaluation, Authorisation and Restriction of Chemicals **REACH**

Regulations concerning the International Carriage of Dangerous Goods by Rail RID

STP Sewage Treatment Plant

Sector of Use SU

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:

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

Full text of hazard classes mentioned in section 3:

Acute Tox. 4 : Acute toxicity, category 4.

Repr. 2 : Reproductive toxicity, category 2.

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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