

According to Regulation (EU) No 2020/878

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

1.1. Product identifier

1.2. Relevant identified u	uses of the substance or mixture and uses advised against	
Product code	: CRX863, PBC74F; PBC74B	
Product name	: SHELL PREMIUM ANTIFREEZE 774 C/P READY TO USE -38°C	

Application

: SU21 Consumer product. PC4 Antifreeze and de-icing products. Coolant.

1.3. Details of the supplier of the safety data sheet

02-305 Warszawa,	o. z o. o. 146 a, Poland
Telephone: +48 22 822 5390E-mail: msds@kemetyl.comWebsite: www.kemetyl.pl	m

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 (1272/2008/EC)	: Acute toxicity, category 4. Specific target organ toxicity — repeated exposure, category 2.
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. Combustible.
 - : Not classified as dangerous according to statutory EC-Directives.

2.2. Label elements

Environmental hazards

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



Signal word	: Warning	
H- and P-phrases	: H302 H373 kidneys P101 P102 P260 vapour P264 P270 P314 P501	 Harmful if swallowed. May cause damage to kidneys through prolonged or repeated exposure. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Do not breathe vapours. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Get medical advice/attention if you feel unwell. Dispose of contents/container to an official chemical waste depot.



Hazard pictograms

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Signal word : Warning H- and P-phrases : H302 Harmful if swallowed. H373 kidneys May cause damage to kidneys through prolonged or repeated exposure. P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. Do not breathe vapours. P260 vapour Wash hands thoroughly after handling. P264 P270 Do not eat, drink or smoke when using this product. P314 Get medical advice/attention if you feel unwell. P501 Dispose of contents/container to an official chemical waste depot. Additional labelling (for all packaging sizes) : Contains: Ethanediol . 2 per cent of the mixture consists of component(s) of unknown acute toxicity. Contains 2 % of components with unknown hazards to the aquatic environment. Other information : According to Regulation (EC) No 1272/2008, the packaging of this product shall carry a tactile warning of danger. 2.3. Other hazards Other information : Does not contain PBT or vPvB substances. Human health: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605. Environment: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

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

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)			EC number	Remark	REACH nr.
Ethanediol	25 - < 50	107-21-	1	203-473-3		01-2119456816-28
Sodium metaborate, dihydrate	1 - < 5	16800-1	1-6	231-891-6		01-2119516444-44
Substance name	Hazard Class		H-phra	ses	Pictograms	
Ethanediol	Acute Tox. 4; STOT RE 2		H302; H373		GHS07; GHS08	
Sodium metaborate, dihydrate	Eye Irrit. 2; Rep	or. 2	H319;	H361d	GHS07; GHS08	H361d : C >= 9,1 %

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



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4.1. Description of first aid measures

: Move victim into fresh air. Consult a doctor if victim feels unwell.
: Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries
up.
: 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.
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	: None known.
Hazardous thermal	: Carbon monoxide may be evolved if incomplete combustion occurs.
decomposition and	
combustion 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. Keep away from sources of ignition — No smoking. 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:
Other information	:	contain with dike. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

Product name	: Shell Premium Ant	ifreeze 774 C/P ready to use -38°C	2	Page 3/10
Date of issue	: 2023-09-07	Replaces issue dated	:	SDS 'autogenerated' by
				Aminchi



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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. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. 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. Protect from sunlight. 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

8.1. Control parameters

Occupational exposure : 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	 TWA 8 hour (mg/m3)	STEL 15 min (mg/m3)	Comments	Source
Ethanediol	52 52		Skin Skin	Directive 2000/39/EC

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 metaborate, dihydrate	Inhalation	15.3 mg/m3	8.8 mg/m3	15.3 mg/m3	8.8 mg/m3
	Dermal				413.9 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
Ethanediol	Dermal				53 mg/kg bw/day



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	Inhalation			7 mg/m3	
Sodium metaborate, dihydrate	Inhalation	17.04 mg/m3	4.44 mg/m3	15.3 mg/m3	4.44 mg/m3
	Dermal		-		208.8 mg/kg bw/day
	Oral		1.03 mg/kg bw		1.03 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 metaborate, dihydrate	Water	2.02 mg/l	2.02 mg/l	
	STP	-		10 mg/l
	Soil			5.4 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 Respiratory protection	 Use of specific protective industrial clothing is not required under normal conditions of use. 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 Eye 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. 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 Colour Odour Odour threshold pH	 Liquid. Blue-green. Characteristic. Not known. 9 	
Solubility in water	: Soluble.	
Partition coefficient (n-oc- tanol/water)	: Not known.	Not measured. Not relevant for mixtures.
Flash point	: 60 °C	Closed cup. Does not support combustion.
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature		· ·
Boiling point/boiling range		
Melting point/melting range	e : -35 °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.



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Decomposition temperature	:	Not applicable.	
Kinematic viscosity (20°C)	:	Not applicable.	
Viscosity (40°C)	:	Not applicable.	
Vapour pressure (20°C)	:	Not known.	
Relative vapour density	:	> 1	(air = 1)
Relative density (20°C)	:	1,06 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.
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10.3. Possibility of hazardous reactions

Reactivity : N	No other hazardous reactions known.
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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

Innalation	
Acute toxicity	 Calculated LC50: > 5,122 mg/l. Ingredients of unknown toxicity: 2 %. 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: 2 %. ATE: > 5000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.



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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: 2 %. 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.

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	: This product does not contain components considered to have endocrine disrupting properties
properties	according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.
Other information	: Not applicable.



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SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

No ecotoxicological research has been carried out on this product.

: Calculated LC50 (fish): 7232 mg/l. Calculated EC50 (waterflea): 209 mg/l. Contains 2 % 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.

12.6. Endocrine disrupting properties

Endocrine disrupting : This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605. 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	: Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.
Waste water discharge	: Do not dispose of into the environment, drains, sewers or water courses. 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

: Not regulated. Transport name



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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.
IMDG (sea) Class Marine pollutant	: This product is not classified according to IMDG. : No
IATA (air) Class	: This product is not classified according to IATA.
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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
CHS	: Globally Harmonized System of Classification and Labelling of Chemicals

- GHS Globally Harmonized System of Classification and Labelling of Chemicals IATA : International Air Transport Association IBC code : International Bulk Chemical Code : International Maritime Dangerous Goods Code IMDG LD50/LC50
 - : Lethal Dose/Concentration for 50% of a population



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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 STOT RE 2	Calculation method.Calculation method.	
Full text of hazard class	ses mentioned in section 3:	
Acute Tox. 4	: Acute toxicity, category 4.	
Eve Irrit. 2	: Eye irritation, 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.
H319	Causes serious eye irritation.
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.

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

End of safety data sheet.

Print date : 2023-09-13