

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 READY TO USE 774C

Product code : CRX510p, PBT733; PBT732

### 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)

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 : Warning

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

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

P260 vapour Do not breathe vapours.

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 .

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# 2.3. Other hazards

Other information : There are no data about the product available. Contains SVHC substances. See section 3.

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Product description : Mixture. Ingredients which are carcinogenic, mutagenic or toxic for reproduction category 1A or 1B

in accordance with Regulation (EC) No 1272/2008: Disodium tetraborate, anhydrous

Information on hazardous substances:

Substance name	Concentration	CAS nr.	EC number	Remark	REACH nr.	
	(w/w) (%)					
Ethanediol	25 - < 50	107-21-1	203-473-3		01-2119456816-28	
Sodium benzoate	1 - < 5	532-32-1	208-534-8	1	01-2119460683-35	
Disodium tetraborate, anhydrous	0,1 - < 1	1330-43-4	215-540-4	İ	01-2119490790-32	

Substance name	Hazard Class	H-phrases	Pictograms
Ethanediol	Acute Tox. 4; STOT RE	H302; H373	GHS07; GHS08
	2		
Sodium benzoate	Eye Irrit. 2	H319	GHS07
Disodium tetraborate, anhydrous	Eye Irrit. 2; Repr. 1B	H319; H360FD	GHS07; 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 : 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.

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

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Extinguishing media

5.1. 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.

## 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):

Tremplace expectate limite (mg/m/).						
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		
Disodium tetraborate, anhydrous	GB	1	-	-		

## 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	Ĭ		35 mg/m3	
Sodium benzoate	Inhalation			6,3 mg/m3	10,4 mg/m3
	Dermal				34,7 mg/kg bw/day
Disodium tetraborate, anhydrous	Inhalation	11,7 mg/m3		11,7 mg/m3	6,7 mg/m3
	Dermal				316,4 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	İ	İ	7 mg/m3	
Sodium benzoate	Inhalation			1,3 mg/m3	2,1 mg/m3
	Dermal				20,8 mg/kg bw/day
	Oral				25 mg/kg bw/day
Disodium tetraborate, anhydrous	Oral		0,79 mg/kg bw		0,79 mg/kg bw/day
	Inhalation	11,7 mg/m3		11,7 mg/m3	3,4 mg/m3
	Dermal				159,5 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
Disodium tetraborate, anhydrous	Water	1,35 mg/l	1,35 mg/l	
	Sediment	1,8 mg/kg	1,8 mg/kg	İ
	Intermittent water			9,1 mg/l
	STP			1,75 mg/l
	Soil			5,4 mg/kg

### 8.2. Exposure controls

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: 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.

Body protection : Use of specific protective industrial clothing is not required under normal conditions of use.

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.  $\pm 0.5$  mm. Indication of permeation breakthrough time: 6 hours.

Eye protection : Wear appropriate safety glasses when there is danger of possible eye contact.

#### PHYSICAL AND CHEMICAL PROPERTIES **SECTION 9**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid. Colour : Blue-green. Odour Characteristic. Odour threshold : Not known.

рΗ : 8,4 : Soluble. Solubility in water : Not known.

Partition coefficient (n-oc-

tanol/water) Flash point

: 109 °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: -40 °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)

Not measured. Not relevant for mixtures.

Oxidising properties Not applicable. Does not contain oxidizing substances.

Decomposition temperature: Not known.

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

Viscosity (40°C) : 1 mm2/sec Vapour pressure (20°C) : Not known.

Relative vapour density : > 1 (air = 1)

Relative density (20°C) : 1,076 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.

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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 : 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: > 5,009 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

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. Does not contain carcinogenic substances.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Skin contact

Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 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.

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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 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

: 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): 5180 mg/l. Calculated EC50 (waterflea): 195 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

 $\label{eq:persistence-degradability} \ : \ \ No \ specific \ information \ known.$ 

### 12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

### 12.4. Mobility in soil

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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

### 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/railway/inland waterways)

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

IMDG (sea)

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.

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#### **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 Lethal Dose/Concentration for 50% of a population LD50/LC50

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

Registration, Evaluation, Authorisation and Restriction of Chemicals REACH

Regulations concerning the International Carriage of Dangerous Goods by Rail RID

Sewage Treatment Plant STP

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.

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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:

Acute Tox. 4 : Acute toxicity, category 4. : Eye irritation, category 2. Eye Irrit. 2

Repr. 1A : Reproductive toxicity, hazard category 1A. Repr. 1B : Reproductive toxicity, hazard category 1B.

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.

H360 May damage fertility or the unborn child.

H360Fd May damage fertility. 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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