Kemetyl

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 : KEMETYL GLYCOCOOL LONGLIFE PREMIUM ANTIFREEZE 774 D-F CONCENTRATE
Product code : 5515, GBT430 ; GBT435 ; GBT439; GBT43Z

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. Coolant.

Uses advised against : Prohibited for consumer use.

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

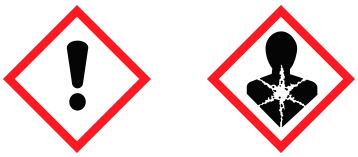
2.1. Classification of the substance or mixture

CLP classification (1272/2008/EC) : Acute toxicity, category 4. Specific target organ toxicity — repeated exposure, category 2. Reproductive toxicity, hazard category 1B.

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

H- and P-phrases :

H302	Harmful if swallowed.
H373 kidneys	May cause damage to kidneys through prolonged or repeated exposure.
H360D	May damage 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.

P264	Wash hands thoroughly after handling.
P308+P313	IF exposed or concerned: Get medical advice/attention.
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 ; Sodium 2-ethylhexanoate .
: Restricted to professional users.

2.3. Other hazards

Other information : Does not contain PBT or vPvB substances in concentrations higher than 0,1%. 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 at levels of 0.1% or higher. 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 at levels of 0.1% or higher.

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	> 75	107-21-1	203-473-3		01-2119456816-28
Sodium 2-ethylhexanoate	1 - < 5	19766-89-3	243-283-8		

Substance name	Hazard Class	H-phrases	Pictograms	
Ethanediol	Acute Tox. 4; STOT RE 2	H302; H373	GHS07; GHS08	
Sodium 2-ethylhexanoate	Repr. 1B	H360D	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

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 decomposition products : Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

Special protective equipment for fire-fighters : 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. 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 : Keep only in the original container.
Non recommended packaging : 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 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/m3)	STEL 15 min (mg/m3)	Comments	Source
Ethanediol	EC GB	52 52	104 104	Skin Skin	Directive 2000/39/EC

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
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 exposure	DNEL, short-term		DNEL, long-term	
		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	:	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	:	Wear appropriate safety gloves 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.	
pH	:	8,6	
Solubility in water	:	Soluble.	
Partition coefficient (n-octanol/water)	:	Not known.	Not measured. Not relevant for mixtures.
Flash point	:	115 °C	Closed cup.
Flammability (solid, gas)	:	Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	:	> 398 °C	
Boiling point/boiling range	:	180 °C	
Melting point/melting range	:	-18 °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 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)	:	1,1 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

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 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

- 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: > 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	:	Possible risk of harm to the unborn child. 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, oral)	250 mg/kg bw/d		Rat
	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) - estimate	> 5000 mg/m3		
	NOAEL (oral)	150 mg/kg bw/d	OECD 452	Rat
	NOEL (carcinogenicity, oral)	1000 mg/kg bw/d		Rat
Sodium 2-ethylhexanoate	LOAEL (development)	1400 mg/kg bw/d	-----	Rat
	LD50 (oral) - estimate	2043 mg/kg bw	Read across	
	LD50 (dermal) - estimate	> 2000 mg/kg bw	Read across	
	Mutagenicity - estimate	Negative	Read across	
	Genotoxicity - estimate	Not genotoxic	Read across	
	Skin irritation - estimate	Slightly irritant	Read across	
	Eye irritation - estimate	Non-irritant	Read across	
	NOAEL (development) - estimate	100 mg/kg.d	Read across	
	NOAEL (fertility) - estimate	300 mg/kg.d	Read across	
	Skin sensitisation - estimate	Not sensitizing	Read across	

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	:	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 at levels of 0.1% or higher.
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): 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

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 properties	:	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 at levels of 0.1% or higher.

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.

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 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

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.
Repr. 1B	:	Calculation method.
STOT RE 2	:	Calculation method.

Full text of hazard classes mentioned in section 3:

Acute Tox. 4	:	Acute toxicity, category 4.
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.
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 : 2023-07-12