

According to Regulation (EU) No 2015/830

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

1.1. Product identifier

Product name Product code		NE COOLANT READY TO USE 28137, PBT78F, PBT78C, PBT78B,	40424	
1.2. Relevant identified u	ses of the substance or mix	cture and uses advised against		
Application	: SU21 Consumer product.	. PC4 Anti-freeze and de-icing prod	ucts. Coolant.	
1.3. Details of the supplie	er of the safety data sheet			
Supplier Telephone	 Kemetyl Polska Sp. z o. c Al. Jerozolimskie 146, Bu 02-305 Warszawa, Polar +48 22 822 5390 	ldynek C		
E-mail Website	: msds@kemetyl.com : www.kemetyl.com			
Website	. www.kemetyi.com			
1.4. Emergency telephone number				
EMERGENCY TELEPHON PL - Telephone	NE NUMBER, for DOCTORS/ : +48 22 822 5390	FIRE BRIGADE/POLICE only:	(During office hours only)	
EMERGENCY TELEPHONE NUMBER (for DOCTORS only):National Poisons Information Service+44 344 892 0111(24/7)				

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/FC)

(1212/2000/LC)		
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 (1272/200 Hazard pictograms	B/EC): :	
Signal word	: Warning	
H- and P-phrases	: H302 H373 kidneys P102 P270 P301+P312 P501	Harmful if swallowed. May cause damage to kidneys through prolonged or repeated exposure. Keep out of reach of children. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Dispose of contents/container to an official chemical waste depot.

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

Product name	
Date of issue	



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Hazard pictograms



Signal word	: Warning	
H- and P-phrases	: H302 H373 kidneys P101 P102 P260 vapour 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. 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.

Additional labelling (for all packaging sizes)

: Contains: Ethanediol .

Other information

warning of danger.

: According to Regulation (EC) No 1272/2008, the packaging of this product shall carry a tactile

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.

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	39-3	243-283-8		
Substance name	Hazard Class		H-phr	ases	Pictograms	
Ethanediol	Acute Tox. 4; S 2	Acute Tox. 4; STOT RE 2		H373	GHS07; GHS08	
Sodium 2-ethylhexanoate	Repr. 2	Repr. 2		d	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.



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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	: None known.

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



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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 (< 35 °C). 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
limits	(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	GB	52	104	Skin	
Ethanediol	EC	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	Í		35 mg/m3	
Sodium 2-ethylhexanoate	Dermal				2 mg/kg bw/day
	Inhalation				14 mg/m3

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of	Route of DNEL, short-term		DNEL, long-term	
	exposure				
		Local effect	Systemic effect	Local effect	Systemic effect
Ethanediol	Dermal			1	53 mg/kg bw/day
	Inhalation			7 mg/m3	
Sodium 2-ethylhexanoate	Dermal				1 mg/kg bw/day
	Inhalation				3,5 mg/m3
	Oral				1 mg/kg bw/day
Predicted no-effect concentration	(PNEC):				
Chemical name	Route of expo	sure Fresh	water	Marine water	

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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.
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

Appearance Colour Odour Odour threshold pH	 Liquid. Red. Characteristic. Not known. 8,5 	
Solubility in water Partition coefficient (n- octanol/water)	: Soluble. : Not known.	
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		
Explosive properties	: None known.	Does not contain explosives.
Explosion limits (% in air)	: Not known.	Lower explosion limit in air (%): 3,2 (Ethanediol)
,	:	Upper explosion limit in air (%): 15,3
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	: Not applicable.	J J J J J J J J J J J J J J J J J J J
Viscosity (20°C)	: 1,3 mm2/sec	(1 mm2/sec = 1cSt)
Viscosity (40°C)	: Not relevant.	The product contains < 10% substances having an aspiration hazard.
Vapour pressure (20°C)	: 2300 Pa	

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Vapour density (20°C)	: >1	(air = 1)	
Relative density (20°C)	: 1,05 g/ml		
Evaporation rate	: Not known.	(n-butyl acetate = 1)	
SECTION 10 STABILIT	Y 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 read	ctions known.	
10.4. Conditions to avoid			
Conditions to avoid	: See section 7.		
10.5. Incompatible materials			
Materials to avoid	: Keep away from oxidizin	g agents.	
10.6. Hazardous decompo	osition products		
Hazardous decomposition	: Not known.		

products

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

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: > 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.



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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.

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).

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.

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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 ass

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

12.6. Other adverse effects

Other information : Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product residues	: Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.
Additional warning	: None.
Waste water discharge	: Do not dispose into the environment, in drains or in water courses.
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

: None.

14.1. UN number

UN nr.

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/railwa Class	ay/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.

14.6. Special precautions for user

Other information : Country specific variations may apply.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code



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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 2015/830 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations.

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 2015/830 dated 28 May 2015 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 (*).

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List of abbreviations and acron		not necessarily are) useu ili iliis salei	y uala sheel.

		ing that bound be (but not needsbarny are) used in this surely 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
VOC	:	Volatile Organic Compounds
vPvB	:	Very Persistent and Very Bioaccumulative

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Procedure used to deriv	e the classification according to Regulation (EC) No. 1272/2008:
Acute Tox. 4	: Calculation method.
STOT RE 2	: Calculation method.
Full text of hazard class	es mentioned in section 3:
Acute Tox. 4	: Acute toxicity, category 4.
STOT RE 2	: Specific target organ toxicity — repeated exposure, category 2.
Full text of H-phrases m	entioned in section 3:
H302	Harmful if swallowed.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
Number format	: "," used as decimal separator.

End of safety data sheet.

Print date : 25-01-2019

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