

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 WINDOW DE-ICER STRONG

Product code : CRX867, AT09S

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

Application : SU21 Consumer product. PC0 Car maintenance. De-icer.

## 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 : Flammable liquid, category 3. Specific target organ toxicity — repeated exposure, category 2.

(1272/2008/EC)

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

Physical/chemical hazards : Flammable.

Environmental hazards : Not classified as dangerous according to statutory EC-Directives.

Other information : Do not breathe spray. Use only in well-ventilated areas.

## 2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :





Signal word : Warning

H- and P-phrases : H226 Flammable liquid and vapour.

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.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P260 aerosol Do not breathe spray.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container to an official chemical waste depot.

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

Hazard pictograms

Signal word : Warning

H- and P-phrases : 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.

P260 aerosol Do not breathe spray.

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 .

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 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	CAS nr.	EC number	Remark	REACH nr.
	(w/w) (%)				
Ethanol	25 - < 50	64-17-5	200-578-6		01-2119457610-43
Ethanediol	10 - < 25	107-21-1	203-473-3		01-2119456816-28

Substance name	Hazard Class	H-phrases	Pictograms	
Ethanol	Flam. Liq. 2; Eye Irrit. 2	H225; H319	GHS02; GHS07	H319 : C >= 50 %
Ethanediol	Acute Tox. 4; STOT RE	H302; H373	GHS07; GHS08	
	2			

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.

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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.

## 4.2. Most important symptoms and effects, both acute and delayed

Effects and symptoms

Inhalation : May cause headache, dizziness and a feeling of sickness. May cause irritation to respiratory

airways and coughing.

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.

## 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:

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

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## 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.

Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not breathe spray. 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). Protect from sunlight. 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.

## 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)		
Ethanol	GB	1920	-	-	
		260	1900	-	MAC: NL
Ethanediol	EC	52	104	Skin	Directive 2000/39/EC
	GB	52	104	Skin	
Propan-2-ol	GB	999	1250	-	
Butanone	EC	600	900	-	Directive 2000/39/EC
	GB	600	899	Skin	BMGV

## Biological limit values (BMGV):

Substance	Country	Determinant	BMG-value	Specimen/Sampling Time/Remarks
			None known.	

Abbreviations BMG-list : B = Blood. U = Urine. b = At the end of the period of exposure. d = pre-shift.

Source : EH40/2005 (Fourth edition, 2020).

Derived no-effect level (DNEL) for workers:

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Chemical name	Route of	DNEL, short-term		DNEL, long-term		
	exposure					
	·	Local effect	Systemic effect	Local effect	Systemic effect	
Ethanol	Dermal	343 mg/kg bw				
	Inhalation	1900 mg/m3			950 mg/m3	
Ethanediol	Dermal				106 mg/kg bw/day	
	Inhalation			35 mg/m3		

## Derived no-effect level (DNEL) for consumers:

Chemical name	Route of	DNEL, short-t	DNEL, short-term		DNEL, long-term	
	exposure					
	,	Local effect	Systemic effect	Local effect	Systemic effect	
Ethanol	Dermal				206 mg/kg bw/day	
	Inhalation	950 mg/m3			114 mg/m3	
	Oral				87 mg/kg bw/day	
Ethanediol	Dermal				53 mg/kg bw/day	
	Inhalation			7 mg/m3		

#### Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Ethanol	Water	0,96 mg/l	0,79 mg/l	
	Sediment	3,6 mg/kg	2,9 mg/kg	
	STP			580 mg/l
	Soil			0,63 mg/kg
	Oral			0,72 mg/kg food
Ethanediol	Water	10 mg/l	1 mg/l	
	Sediment	20,9 mg/kg		
	Intermittent water			10 mg/l
	STP			199,5 mg/l
	Soil	İ		1,53 mg/kg

## 8.2. Exposure controls

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

chemicals.

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.

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid. Colour : Blue.

Odour : Characteristic.

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Odour threshold : Not known. pH : 6,75

Solubility in water : Soluble.

Partition coefficient (n-oc- : Not applicable.

tanol/water)

Flash point : 25 °C Closed cup.

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

Auto ignition temperature : > 304 °C
Boiling point/boiling range : 78 °C

Melting point/melting range : -60 °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 (%): 19 ( Ethanol )

Does not contain oxidizing substances.

Not measured. Not relevant for mixtures.

Oxidising properties : Not applicable. Decomposition temperature : Not applicable.

Viscosity (20°C) : 19 mm2/sec = 1cSt

Viscosity (40°C) : 1 mm2/sec Vapour pressure (20°C) : > 2300 Pa

Relative vapour density : > 1 (air = 1)

Relative density (20°C) : 0,96 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 : 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.

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Inhalation

: Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: < 1 %. ATE: > 5 mg/l. Low toxicity. Not Acute toxicity

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

dizziness and a feeling of sickness.

Corrosion/irritation May cause irritation to respiratory airways and coughing. 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 Not expected to be carcinogenic. Not classified - based on available data, the classification criteria

are not met.

Mutagenicity Not expected to be mutagenic. 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.

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

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 : 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. May

cause hampered eyesight.

Aspiration : Not expected to be an aspiration hazard. Contains a substance/substances with an aspiration

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

Chronic toxicity : Possibility of organ or organ system damage due to prolonged exposure. Target organ(s): Kidneys.

Effect: May cause nephrolithiasis.

: May cause a feeling of sickness, vomiting and diarrhoea. Corrosion/irritation

Carcinogenicity Not expected to be carcinogenic. Not classified - based on available data, the classification criteria

are not met.

Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria

are not met.

Development: Not expected to be reprotoxic. Development: Not classified - Based on available Reprotoxicity

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		

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LC50 (inhalation)	> 2500 mg/m3		Rat	
LC50 (inhalation) -	> 5000 mg/m3			
estimate				
NOAEL (oral)	150 mg/kg bw/d	OECD 452	Rat	
NOEL (carcinogeni	city, 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

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): 2805

: Calculated LC50 (fish): 28056 mg/l. Calculated EC50 (waterflea): 417 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. The surfactants contained in this preparation comply with the

biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents.

## 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 may be recycled. Treat

product residues and non-empty pack as hazardous waste.

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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.

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. : UN 1170

## 14.2. UN proper shipping name

Transport name : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Transport name (IMDG, : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

IATA)

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

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

Class : 3
Classification code : F1
Packaging group : III
Danger label : 3
Tunnel restriction : D/E

code



Other information : Not intended for carriage by tank-vessels on inland waterways.

IMDG (sea)

Class : 3 Packaging group : III

EmS (fire / spill) : F - E / S - D

Marine pollutant : No

IATA (air)

Class : 3 ERG code : 3L

### 14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to

the transport of this product.

## 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

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## 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

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.

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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Flam. Liq. 3 : On basis of test data.

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STOT RE 2 : Calculation method.

Full text of hazard classes mentioned in section 3:

Flam. Liq. 2 : Flammable liquid, category 2. Acute Tox. 4 : Acute toxicity, category 4. Eye 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:

Highly flammable liquid and vapour. H225

H302 Harmful if swallowed. H319 Causes serious eye irritation.

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.

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