Article 1726

SECTION 1: Substance/mixture and company identification

1.1 Product identification

Code: 1726 **REVELGAS**
Denomination: GAS LEAK DETECTOR 400 ml
UFI: AGV0-W0GU-Y00Q-A955

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

Description/use: Aerosol product that detects gas or compressed air leaks.

Usi identificativi	Industrial use	Professional use	Consumer
Consumer	-	-	√
Industrial use	√	-	-
Professional use	-	√	-

1.3 Details of the supplier of the safety data sheet:

Company name: Kemper S.r.l.
Address: Via Prampolini 1/Q,
43044 Lemignano di Collecchio (PR) – Italia
Tel.: +39 0521-957111 (dalle 8.30 alle 17.00)
fax +39 0521 957195
Contact responsible for SDS: info@kempergroup.it

1.4 Emergency telephone numbers:

For urgent inquiries refer to:

DESCRIPTION	NATION	PHONE
REACH and CLP UK CA Help Desk Health and Safety Executive (HSE)	EN	+44 0151 9515897 / 0151 922 9235

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.
Hazard classification and indication:

Aerosol, category 3 H229 Pressurized container: may explode if heated.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Pictogram of danger: --

Warning: Attention

Indications of danger:

H229 Pressurized container: may explode if heated.

KEMPER SRL
SEDE VIA PRAMPOLINI 1/Q – 43044 LEMIGNANO DI COLLECCHIO – PARMA ITALY
TEL 0521/957111 FAX 0521/957195

Safety advice:

P210	Keep away from sources of heat, hot surfaces, sparks, flames or other sources of Ignition. Do not smoke.
P251	Do not pierce or burn, even after use.
P410+P412	protect from sunlight. Do not expose to temperatures higher than 50°/122°F.
P102	Keep away from the reach of children.

0,76% by mass of the contents are flammable.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.
The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3: Composition / information on ingredients

3.2 Mixture

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)	CAS	CE	REACH
ethanediol INDEX 603-027-00-1	1 ≤ x < 3	Acute Tox. 4 H302, STOT RE 2 H373 STA Oral: 500 mg/kg	107-21-1	203-473-3	01-2119456816-28
Sodium n-lauroilsarcosinato INDEX -	0,5 ≤ x < 1	Acute Tox. 2 H330, Eye Dam. 1 H318, Skin Irrit. 2 H315 Skin Irrit. 2 H315: ≥ 30%, Eye Dam. 1 H318: ≥ 30%, Eye Irrit. 2 H319: ≥ 1% STA Inhalation mists/powders: 0,051 mg/l	137-16-6	205-281-5	01-2119527780-39

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 0,30 %

SECTION 4: First aid measures

4.1 Description of first aid measures

EYES	Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.
SKIN	Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.
INHALATION	Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.
INGESTION	Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

KEMPER SRL
SEDE VIA PRAMPOLINI 1/Q – 43044 LEMIGNANO DI COLLECCHIO – PARMA ITALY
TEL 0521/957111 FAX 0521/957195

Information not available

SECTION 5: Firefighting measures

5.1 Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2 Special hazards arising from substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

5.3 Raccomandazioni per gli addetti all'estinzione degli incendi

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2 Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3 Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4 Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2 Conditions for safe storage, including any incompatibilities

KEMPER SRL
SEDE VIA PRAMPOLINI 1/Q – 43044 LEMIGNANO DI COLLECCHIO – PARMA ITALY
TEL 0521/957111 FAX 0521/957195

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

7.3 Specific end use(s)
Information not available.

SECTION 8: Exposure control/personal protection

8.1 Control Parameters
Regulatory References:

CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. Augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

Glycerol		
Predicted no-effect concentration - PNEC		
Normal value in fresh water	885	µg/l
Normal value in marine water	88,5	µg/l
Normal value for fresh water sediment	3,3	mg/kg/d
Normal value for marine water sediment	330	µg/kg/d
Normal value of STP microorganisms	1	g/l
Normal value for the terrestrial compartment	141	µg/kg/d
Health - Derived no-effect level - DNEL / DMEL		

KEMPER SRL
SEDE VIA PRAMPOLINI 1/Q – 43044 LEMIGNANO DI COLLECCHIO – PARMA ITALY
TEL 0521/957111 FAX 0521/957195

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				229 mg/kg bw/d				
Inhalation			33 mg/m³				56 mg/m³	

Ethanediol

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m³	ppm	mg/m³	ppm	
TVL	CZE	50	19,4	100	38,8	SKIN
AGW	DEU	26	10	52	20	SKIN
MAK	DEU	26	10	52	20	SKIN
VLA	ESP	52	20	104	40	SKIN
VLEP	FRA	52	20	104	40	SKIN
TLV	GRC	125	50	125	50	
AK	HUN	52		104		SKIN
VLEP	ITA	52	20	104	40	SKIN
VLE	PRT	52	20	104	40	SKIN
NSD/NDSCh	POL	15		50		SKIN
NPEL	SVK	52	20	104	40	SKIN
WEL	GBR	52	20	104	40	SKIN
OEL	EU	52	20	104	40	SKIN
TVL-ACGIH			25		50	
TVL-ACGIH				10		INHAL

Predicted no-effect concentration - PNEC

Normal value in fresh water	10	mg/l
Normal value in marine water	1	mg/l
Normal value for fresh water sediment	37	mg/kg
Normal value for marine water sediment	3,7	mg/kg
Normal value for water, intermittent release	10	mg/l
Normal value of STP microorganisms	199,5	mg/l
Normal value for the terrestrial compartment	1,53	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			7 mg/m³	VND			35 mg/m³	VND
Skin			VND	53 mg/kg/d			VND	106 mg/kg/d

Sodium n-lauroylsarcosinate

Predicted no-effect concentration - PNEC

Normal value in fresh water	8,91	µg/l
Normal value in marine water	891	ng/l
Normal value for fresh water sediment	64,2	µg/kg/d
Normal value for marine water sediment	6,4	µg/kg/d
Normal value for water, intermittent release	8,91	µg/l
Normal value of STP microorganisms	3	mg/l
Normal value for the terrestrial compartment	7,6	µg/kg/d
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

KEMPER SRL
SEDE VIA PRAMPOLINI 1/Q – 43044 LEMIGNANO DI COLLECCHIO – PARMA ITALY
TEL 0521/957111 FAX 0521/957195

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		10 mg/kg/d				
Inhalation	VND	NPI	VND	17,39 mg/m³	VND	VND	VND	70,53 mg/m³
Skin	NPI	NPI	NPI	10 mg/kg bw/d	VND	VND	VND	20 mg/kg bw/d

Propane						
Threshold Limit Value						
Type	**Country**	**TWA/8h**		**STEL/15min**		**Remark / Observations**
		mg/m³	**ppm**	**mg/m³**	**ppm**	
AGW	DEU	1800	1000	7200	4000	
MAK	DEU	1800	1000	7200	4000	
VLA	ESP		1000			
TLV	GRC	1800	1000			
NDS/NDSCh	POL	1800				

Butane						
Threshold Limit Value						
Type	**Country**	**TWA/8h**		**STEL/15min**		**Remark / Observations**
		mg/m³	**ppm**	**mg/m³**	**ppm**	
AGW	DEU	2400	1000	9600	4000	
MAK	DEU	2400	1000	9600	4000	
VLA	ESP		1000			Gases
VLEP	FRA	1900	800			
TLV	GRC	2350	1000			
AK	HUN	2350		9400		
NDS/NDSCh	POL	1900		3000		
WEL	GBR	1450	600	1810	750	
WEL	GBR		4			RESPIR
TVL-ACGIH					1000	

Sodium benzoate						
Threshold Limit Value						
Type	**Country**	**TWA/8h**		**STEL/15min**		**Remark / Observations**
		mg/m³	**ppm**	**mg/m³**	**ppm**	
AGW	DEU	2		10		INHAL
AGW	DEU	2		10		SKIN
TVL-ACGIH		2,5				INHAL
TVL-ACGIH		2,5				SKIN
Predicted no-effect concentration - PNEC						
Normal value in fresh water				130	µg/l	
Normal value in marine water				13	µg/l	
Normal value for fresh water sediment				1,76	mg/kg/d	
Normal value for marine water sediment				176	mg/kg/d	
Normal value for water, intermittent release				305	µg/l	
Normal value of STP microorganisms				10	mg/l	
Normal value for the food chain (secondary poisoning)				300	mg/kg	
Normal value for the terrestrial compartment				276	mg/kg/d	
Health - Derived no-effect level - DNEL / DMEL						

KEMPER SRL
SEDE VIA PRAMPOLINI 1/Q – 43044 LEMIGNANO DI COLLECCHIO – PARMA ITALY
TEL 0521/957111 FAX 0521/957195

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			60 µg/m³				100 µg/m³	
Skin				31,25 mg/kg bw/d				

Isobutane					
Threshold Limit Value					
Type	**Country**	**TWA/8h**		**STEL/15min**	**Remark / Observations**
		mg/m³	**ppm**	**mg/m³**	**ppm**
NDS/ACGIH			800		

Sodium Nitrile								
Predicted no-effect concentration - PNEC								
Normal value in fresh water					5,4	µg/l		
Normal value in marine water					6,16	µg/l		
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation						2 mg/m³		2 mg/m³

Legend:
(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available;
NEA = no exposure expected;
NPI = no hazard identified;
LOW = low hazard;
MED = medium hazard;
HIGH = high hazard.

TLV of solvent mixture: 10 mg/m3

8.2 Exposure Controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

HAND PROTECTION
None required.

SKIN PROTECTION
Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344).
Wash body with soap and water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type A filter combined with a type P filter should be worn (see standard EN 14387).
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
ENVIRONMENTAL EXPOSURE CONTROLS

KEMPER SRL
SEDE VIA PRAMPOLINI 1/Q – 43044 LEMIGNANO DI COLLECCHIO – PARMA ITALY
TEL 0521/957111 FAX 0521/957195

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9: Physical and chemical properties

9.1 Information on the physical and chemical properties fundamental

Properties	Value	Information
Appearance	Aerosol	
Colour	colourless	
Odour	odourless	
Melting point / freezing point	not available	
Initial boiling point	> 100 °C	
Flammability	not flammable	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	not applicable	
Auto-ignition temperature	not available	
Decomposition temperature	> 200°C °C	
pH	7-9	
Kinematic viscosity	not available	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	0.96 ÷ 1.00 kg/l	Temperature: 20 °C
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2 Other information

9.2.1. Information with regard to physical hazard classes

Aerosol

% Flammable components	0,76

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	8,08 % - 79,16 g/litre
VOC (volatile carbon)	3,55 % - 34,79 g/litre
Explosive properties	not applicable
Oxidising properties	not applicable
Operating temperature	> 0°C / 100°C ca.
Remarks	Biodegradability: 92% (H_2O compound) Nitrogen > 100 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.
Ethanediol
In the air absorbs moisture. Decomposes at temperatures above 200°C/392°F.

10.2. Chemical stability

KEMPER SRL
SEDE VIA PRAMPOLINI 1/Q – 43044 LEMIGNANO DI COLLECCHIO – PARMA ITALY
TEL 0521/957111 FAX 0521/957195

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions
No hazardous reactions are foreseeable in normal conditions of use and storage.
Ethanediol
Risk of explosion on contact with: perchloric acid. May react dangerously with: chlorosulphuric acid, sodium hydroxide, sulphuric acid, phosphorus pentasulphide, chromium (III) oxide, chromyl chloride, potassium perchlorate, potassium dichromate, sodium peroxide, aluminium. Forms explosive mixtures with: air.

10.4. Conditions to avoid
Avoid overheating.
Ethanediol
Avoid exposure to: sources of heat, naked flames.

10.5. Incompatible materials
Strong reducing or oxidising agents, strong acids or alkalis, hot material.

10.6. Hazardous decomposition products
Ethanediol
May develop: hydroxyacetaldehyde, glyoxal, acetaldehyde, methane, carbon monoxide, hydrogen.

SECTION 11: Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetic, mechanism of action and other information
Information not available

Information on likely routes of exposure
Ethanediol
WORKERS: inhalation; contact with the skin.
POPULATION: inhalation of ambient air; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Ethanediol
Ingestion initially stimulates the central nervous system; later replaced by a phase of depression. There may be kidney damage, with anuria and uremia. Over-exposure symptoms are: vomiting, drowsiness, difficulty in breathing, convulsions. The lethal dose for humans is approx. 1.4 ml/kg.

Interactive effects
Information not available
ACUTE TOXITITY

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	Not classified (no significant component)

Ethanediol

LD50 (Dermal):	3500 mg/kg bw mouse

KEMPER SRL
SEDE VIA PRAMPOLINI 1/Q – 43044 LEMIGNANO DI COLLECCHIO – PARMA ITALY
TEL 0521/957111 FAX 0521/957195

LD50 (Oral):	7712 mg/kg bw rat
STA (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
LC50 (Inhalation vapours):	2,5 mg/l/6h rat

Sodium n-lauroylsarcosinate

LD50 (Oral):	5000 mg/kg bw rat
LC50 (Inhalation mists/powders):	> 50 mg/m³ air 4 h rat
STA (Inhalation mists/powders):	0,051 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

SKIN CORROSION / IRRITATION
Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION
Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION
Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY
Does not meet the classification criteria for this hazard class

CARCINOGENICITY
Does not meet the classification criteria for this hazard class
Ethanediol
Available studies have shown no carcinogenic potential. In a carcinogenicity study lasting two years, carried out by the US National Toxicology Program (NTP), in which ethylene glycol was administered in the feed, "no evidence of carcinogenic activity" in male and female B6C3F1 mice was observed (NTP, 1993).

REPRODUCTIVE TOXICITY
Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE
Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE
Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD
Excluded because the aerosol does not allow the accumulation of a significant amount of product in the mouth

11.2. Information on other hazards
Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12: Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1 Toxicity

Ethanediol

LC50 – for fish	72,86 mg/l/96h

KEMPER SRL
SEDE VIA PRAMPOLINI 1/Q – 43044 LEMIGNANO DI COLLECCHIO – PARMA ITALY
TEL 0521/957111 FAX 0521/957195

EC50 – for crustacea	100 mg/l/48h
Chronic NOEC for fish	23,69 g/l
Chronic NOEC for crustacea	1 g/l 23 days
Chronic NOEC for Algae / Aquatic Plants	100 mg/l 72 h

Sodium n-lauroylsarcosinate

LC50 - for fish	> 32,1 mg/l/96h Method OCSE 203
EC50 - for crustacea	> 8,91 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 39 mg/l/72h
Chronic NOEC for fish	50 mg/l 4 days
Chronic NOEC for crustacea	5 mg/l 48 h
Chronic NOEC for Algae / Aquatic Plants	9,2 mg/l 72 h

12.2 Persistence and degradability

Sodium n-lauroylsarcosinate
Easily biodegradable (according to OCSE criteria)

Ethanediol
Solubility in water 1000 - 10000 mg/l
Rapidly degradable

Sodium n-lauroylsarcosinate
Rapidly degradable

12.3 Bioaccumulation potential

Ethanediol
Partition coefficient: n-octanol/water -1,36

12.4 Mobility in soil

Information not available

12.5 Results of the PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13: Disposal considerations

13.1 Waste treatment method

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Waste transportation may be subject to ADR restrictions.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.
Product residues are to be considered special hazardous waste.

KEMPER SRL
SEDE VIA PRAMPOLINI 1/Q – 43044 LEMIGNANO DI COLLECCHIO – PARMA ITALY
TEL 0521/957111 FAX 0521/957195

Empty cans, even if completely emptied, must not be dispersed in the environment.
The aerosol container overheated to a temperature above 50 ° C may burst even if it contains a small residue of gas.
Disposal must take place in an authorized place and in compliance with the laws in force.
The transport of waste may be subject to ADR.
European waste catalog code (contaminated containers):
Aerosol as domestic waste is excluded from the application of the aforementioned rule.
The exhausted aerosol for professional / industrial use can be classified:
15.01.11 *: metallic packaging containing dangerous solid porous matrices, including empty pressure containers.

SECTION 14: Transport information

14.1 UN number or ID number

ADR / RID, IMDG, IATA: 1950

14.2 UN proper shipping name

ADR / RID: AEROSOL
IMDG: AEROSOLS
IATA: AEROSOLS, NON-FLAMMABLE

14.3 Transport hazard class(es)

ADR / RID:	Class: 2	Label: 2.2	
IMDG:	Class: 2	Label: 2.2	
IATA:	Class: 2	Label: 2.2	

14.4 Packing group

ADR / RID, IMDG, IATA: -

14.5 Environmental hazards

ADR / RID: NO
IMDG: NO
IATA: NO

14.6 Special precautions for user

ADR / RID:	HIN - Kemler: --	Limited Quantities: 1 L	Tunnel restriction code: (E)
IMDG:	Special provision: - EMS: F-D, S-U	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 150 Kg	Packaging instructions: 203
	Pass.:	Maximum quantity: 75 Kg	Packaging instructions: 203
	Special provision:	A98, A145, A167, A802	

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15: Regulatory information

KEMPER SRL
SEDE VIA PRAMPOLINI 1/Q – 43044 LEMIGNANO DI COLLECCHIO – PARMA ITALY
TEL 0521/957111 FAX 0521/957195

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
Product
Point 40

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
not applicable

Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:
None

Substances subject to the Rotterdam Convention:
None

Substances subject to the Stockholm Convention:
None

Healthcare controls
Information not available

15.2 Chemical safety assessment
A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16: Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Aerosol 3	Aerosol, category 3
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
H229	Pressurized container: may explode if heated
H330	Fatal if inhaled
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H318	Causes severe ocular lesions
H315	Causes skin irritation

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road

KEMPER SRL
SEDE VIA PRAMPOLINI 1/Q – 43044 LEMIGNANO DI COLLECCHIO – PARMA ITALY
TEL 0521/957111 FAX 0521/957195

- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website

KEMPER SRL
SEDE VIA PRAMPOLINI 1/Q – 43044 LEMIGNANO DI COLLECCHIO – PARMA ITALY
TEL 0521/957111 FAX 0521/957195

- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) – Italy

Note for users:
Safety Data Sheet compliant with regulation (EU) n. 2020/878 of 18 June 2020.
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.
CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.
This sheet replaces all previous versions.

KEMPER SRL
SEDE VIA PRAMPOLINI 1/Q – 43044 LEMIGNANO DI COLLECCHIO – PARMA ITALY
TEL 0521/957111 FAX 0521/957195