

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Safety data sheet according to Regulation (EC) 2020/878

Revision date 21/11/2023

Revision Number 0.51

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product Name	Electronic Cleaning Solvent Plus
Product Code(s)	ECSP-b, EECSP6.25L, ZE
Safety data sheet number	00769
Unique Formula Identifier (UFI)	Y042-J0FS-D00F-R3SJ
Pure substance/mixture	Mixture
1.2. Relevant identified uses of the	substance or mixture and uses advised against
Recommended use	Cleaning agent
Uses advised against	No specific uses advised against are identified
1.3. Details of the supplier of the sa	afety data sheet
<u>Manufacturer</u>	Supplier
ELECTROLUBE MacDermid Alpha Electronics Solutio ASHBY PARK, COALFIELD WAY, ASHBY DE LA ZOUCH, LEICESTERSHIRE LE65 1JR UNITED KINGDOM +44 (0)1530 419600 +44 (0)1530 416640	HK WENTWORTH LIMITED 32 RUE DE TOURNENFILS 91540 MENNECY FRANCE +33 (0) 1 82 88 47 94 info@electrolube.com
info@electrolube.com	
E-mail address	info@electrolube.com
1.4. Emergency telephone number	_
Emergency Telephone	POISON INFORMATION CENTRE (Beaumont Hospital, Republic of Ireland only) +353 (0)1 809 2166 (08:00 - 22:00)
Emergency Telephone - IN CASE	OF EMERGENCY CALL: +44 1865 407333 (24hr, Provided by Carechem 24)
SECTION 2: Hazards ident	lification

2.1. Classification of the substance or mixture

Classification according to

Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids	Category 2 - (H225)
Specific target organ toxicity — single exposure	Category 3 - (H336)
Category 3 Narcotic effects	
Aspiration hazard	Category 1 - (H304)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains pentane, Propan-2-ol



Signal word Danger

Hazard statements

H225 - Highly flammable liquid and vapour

H304 - May be fatal if swallowed and enters airways

H336 - May cause drowsiness or dizziness

H411 - Toxic to aquatic life with long lasting effects

EUH066 - Repeated exposure may cause skin dryness or cracking

Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 - Avoid breathing vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration	EC No (EU	Classification according	Specific	M-Factor	M-Factor
		number	Index No)	to Regulation (EC) No.	concentration		(long-term)
				1272/2008 [CLP]	limit (SCL)		

pentane	60-100	01-2119459286-30-00	203-692-4	Aquatic Chronic 2	-	-	-
109-66-0		00		(H411)			
				Asp. Tox. 1 (H304)			
				STOT SE 3 (H336)			
				Flam. Liq. 2 (H225)			
Propan-2-ol	5-10	01-2119457558-25-00	200-661-7	Eye Irrit. 2 (H319)	-	-	-
67-63-0		00		STOT SE 3 (H336)			
				Flam. Liq. 2 (H225)			

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

Chemical name	Oral LD50 mg/kg		Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
pentane 109-66-0	2000	3000	364	No data available	No data available
Propan-2-ol 67-63-0	1870	4059	No data available	30.1002	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation	Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical attention. Delayed pulmonary edema may occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical attention.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
4.2. Most important symptoms and	effects, both acute and delayed

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

Symptoms	Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Inhalation of high vapour	

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Because of the danger of aspiration, emesis or gastric lavage should not be used unless the
	risk is justified by the presence of additional toxic substances.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
5.2. Special hazards arising from th	e substance or mixture
Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
5.3. Advice for firefighters	
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
6.3. Methods and material for conta	ainment and cleaning up
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	
Reference to other sections	See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment.
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
pentane	TWA: 1000 ppm	TWA: 600 ppm	TWA: 600 ppm	TWA: 1000 ppm	TWA: 1000 ppm
109-66-0	TWA: 3000 mg/m ³	TWA: 1800 mg/m ³	TWA: 1800 mg/m ³	TWA: 3000.0 mg/m ³	TWA: 3000 mg/m ³
		STEL 1200 ppm	STEL: 750 ppm	_	-
		STEL 3600 mg/m ³	STEL: 2250 mg/m ³		
Propan-2-ol	-	TWA: 200 ppm	TWA: 200 ppm	STEL: 1225.0 mg/m ³	TWA: 400 ppm

67-63-0		TWA: 500 mg/m ³	TWA: 500 mg/m ³	TWA: 980	$0 ma/m^3$	TWA: 999 mg/m ³
67-63-0		STEL 800 ppm	STEL: 400 ppm	TVVA. 900	.0 mg/m°	STEL: 500 ppm
		STEL 2000 mg/m ³	STEL: 1000 mg/m ³			STEL: 1250 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Esto	nia	Finland
pentane	TWA: 1000 ppm	TWA: 2000 mg/m ³	TWA: 500 ppm	TWA: 10		TWA: 500 ppm
109-66-0	TWA: 3000 mg/m ³	Ceiling: 4500 mg/m ³	TWA: 1500 mg/m ³	TWA: 300		TWA: 1500 mg/m ³
	J J	0 0	STEL: 1000 ppm		0	STEL: 630 ppm
			STEL: 3000 mg/m ³			STEL: 1900 mg/m ³
Propan-2-ol	-	TWA: 500 mg/m ³	TWA: 200 ppm	TWA: 15		TWA: 200 ppm
67-63-0		Ceiling: 1000 mg/m ³	TWA: 490 mg/m ³	TWA: 35		TWA: 500 mg/m ³
		D*	STEL: 400 ppm	STEL: 2		STEL: 250 ppm
			STEL: 980 mg/m ³	STEL: 60		STEL: 620 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Gree		Hungary
pentane	TWA: 1000 ppm	TWA: 1000 ppm	TWA: 1000 ppm	TWA: 10		TWA: 3000 mg/m ³
109-66-0	TWA: 3000 mg/m ³	TWA: 3000 mg/m ³	TWA: 3000 mg/m ³	TWA: 295		TWA: 1000 ppm
			Peak: 2000 ppm	STEL: 10		
Propan-2-ol	STEL: 400 ppm	TWA: 200 ppm	Peak: 6000 mg/m ³ TWA: 200 ppm	STEL: 295 TWA: 40		TWA: 500 mg/m ³
67-63-0	STEL: 400 ppm STEL: 980 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³	TWA: 40		TWA: 500 mg/m ³ TWA: 200 ppm
01200-0	GILE. 300 mg/m	1 WA. 500 mg/m	Peak: 400 ppm	STEL: 5		STEL: 1000 mg/m ³
			Peak: 1000 mg/m ³	STEL: 122		STEL: 400 ppm
			. ean reee mgm	•••••		b*
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latv	/ia	Lithuania
pentane	TWA: 1000 ppm	TWA: 667 ppm	TWA: 1000 ppm	TWA: 10		TWA: 1000 ppm
109-66-0	STEL: 3000 ppm	TWA: 2000 mg/m ³	TWA: 2951 mg/m ³	TWA: 300		TWA: 3000 mg/m ³
				STEL: 30		
Propan-2-ol	TWA: 200 ppm	-	TWA: 200 ppm	TWA: 35		STEL: 250 ppm
67-63-0	STEL: 400 ppm		TWA: 492 mg/m ³	STEL: 60	0 mg/m³	STEL: 600 mg/m ³
	Sk*		STEL: 400 ppm			TWA: 150 ppm
	1	N 4 - 14 -	STEL: 983 mg/m ³	NLaw		TWA: 350 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands	Norv		Poland
pentane 109-66-0	TWA: 1000 ppm TWA: 3000 mg/m ³	TWA: 1000 ppm TWA: 3000 mg/m ³	TWA: 600 ppm TWA: 1800 mg/m ³	TWA: 25 TWA: 75		TWA: 3000 mg/m ³
109-00-0	TWA. 5000 mg/m	TWA. 5000 mg/m	TWA. TOOU Mg/M°	STEL: 31		
				STEL: 937	2.5 ppm 5 mg/m ³	
Propan-2-ol	_					STEL · 1200 mg/m3
Propan-2-ol 67-63-0	-	-	-	TWA: 10	00 ppm	STEL: 1200 mg/m ³ TWA: 900 mg/m ³
Propan-2-ol 67-63-0	-	-	-	TWA: 10 TWA: 24	00 ppm 5 mg/m³	STEL: 1200 mg/m ³ TWA: 900 mg/m ³ skóra*
	-	-		TWA: 10	00 ppm 5 mg/m ³ 50 ppm	TWA: 900 mg/m ³ skóra*
	- Portugal	- Romania		TWA: 10 TWA: 24 STEL: 11 STEL: 306 Slove	00 ppm 5 mg/m ³ 50 ppm .25 mg/m ³ enia	TWA: 900 mg/m ³ skóra*
67-63-0		- Romania TWA: 1000 ppm		TWA: 1(TWA: 24 STEL: 1 STEL: 306	00 ppm 5 mg/m ³ 50 ppm .25 mg/m ³ enia	TWA: 900 mg/m³ skóra*
67-63-0 Chemical name	Portugal	TWA: 1000 ppm TWA: 3000 mg/m ³	Slovakia	TWA: 10 TWA: 24 STEL: 13 STEL: 306 Slove TWA: 10 TWA: 300	00 ppm 5 mg/m ³ 50 ppm <u>25 mg/m³</u> enia 00 ppm 00 mg/m ³	TWA: 900 mg/m³ skóra*
67-63-0 Chemical name pentane	Portugal TWA: 1000 ppm	TWA: 1000 ppm	Slovakia TWA: 1000 ppm	TWA: 10 TWA: 24 STEL: 13 STEL: 306 SIove TWA: 10 TWA: 300 STEL: 20	00 ppm 5 mg/m ³ 50 ppm .25 mg/m ³ enia 00 ppm 00 mg/m ³ 000 ppm	TWA: 900 mg/m ³ skóra* Spain TWA: 1000 ppm
67-63-0 Chemical name pentane 109-66-0	Portugal TWA: 1000 ppm TWA: 3000 mg/m ³	TWA: 1000 ppm TWA: 3000 mg/m ³ STEL: 1000 mg/m ³	Slovakia TWA: 1000 ppm TWA: 3000 mg/m ³	TWA: 10 TWA: 249 STEL: 306 STEL: 306 Slove TWA: 10 TWA: 300 STEL: 20 STEL: 600	00 ppm 5 mg/m ³ 50 ppm 25 mg/m ³ enia 00 ppm 00 mg/m ³ 000 ppm 00 mg/m ³	TWA: 900 mg/m ³ skóra* Spain TWA: 1000 ppm TWA: 3000 mg/m ³
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67-63-0 Chemical name pentane 109-66-0 Propan-2-ol 67-63-0 Chemical name pentane	Portugal TWA: 1000 ppm TWA: 3000 mg/m ³ TWA: 200 ppm STEL: 400 ppm Vägledande Vägledande k NGV: NGV: 1 Vägledande	TWA: 1000 ppm TWA: 3000 mg/m ³ STEL: 1000 mg/m ³ TWA: 81 ppm TWA: 200 mg/m ³ STEL: 203 ppm STEL: 500 mg/m ³ weden KGV: 750 ppm KGV: 2000 mg/m ³ 600 ppm	Slovakia TWA: 1000 ppm TWA: 3000 mg/m ³ TWA: 200 ppm TWA: 500 mg/m ³ Ceiling: 1000 mg/m ³ Ceiling: 1000 mg/m TWA: 600 ppm TWA: 1800 mg/r STEL: 1200 ppr	TWA: 10 TWA: 24 STEL: 306. STEL: 306. TWA: 10 TWA: 300 STEL: 20 STEL: 600 TWA: 500 STEL: 40 STEL: 100 n ³ n m ³	00 ppm 5 mg/m ³ 50 ppm 25 mg/m ³ 25 mg/m ³ 00 ppm 00 mg/m ³ 00	TWA: 900 mg/m ³ skóra* Spain TWA: 1000 ppm TWA: 3000 mg/m ³ TWA: 500 mg/m ³ STEL: 400 ppm STEL: 1000 mg/m ³ ted Kingdom /A: 600 ppm A: 1800 mg/m ³ EL: 1800 ppm
67-63-0 Chemical name pentane 109-66-0 Propan-2-ol 67-63-0 Chemical name pentane 109-66-0 Propan-2-ol	Portugal TWA: 1000 ppm TWA: 3000 mg/m ³ TWA: 200 ppm STEL: 400 ppm Vägledande Vägledande NGV: 1 Vägledande Vägledande	TWA: 1000 ppm TWA: 3000 mg/m³ STEL: 1000 mg/m³ TWA: 81 ppm TWA: 200 mg/m³ STEL: 203 ppm STEL: 500 mg/m³ weden AGV: 750 ppm GO: 2000 mg/m³ 600 ppm 800 mg/m³ 9 KGV: 250 ppm	Slovakia TWA: 1000 ppm TWA: 3000 mg/m ³ TWA: 200 ppm TWA: 500 mg/m ³ Ceiling: 1000 mg/m ³ Switzerland TWA: 600 ppm TWA: 1800 mg/r STEL: 1200 ppr STEL: 3600 mg/r TWA: 200 ppm	TWA: 10 TWA: 24 STEL: 306. STEL: 306. TWA: 10 TWA: 300 STEL: 20 STEL: 600 TWA: 500 STEL: 40 STEL: 100 n ³ n m ³ n ³	00 ppm 5 mg/m ³ 50 ppm 25 mg/m ³ 25 mg/m ³ 00 ppm 00 mg/m ³ 00 mg/m ³ 00 ppm 00 mg/m ³ 00	TWA: 900 mg/m ³ skóra* Spain TWA: 1000 ppm TWA: 3000 mg/m ³ TWA: 500 mg/m ³ STEL: 400 ppm STEL: 1000 mg/m ³ ted Kingdom VA: 600 ppm A: 1800 mg/m ³ EL: 1800 ppm L: 5400 mg/m ³ VA: 400 ppm

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Chemical name	European Union	Austria	Bulg	garia	Croatia		Czech Republic
Propan-2-ol	-	-		-	50 mg/L - blo		-
67-63-0					(Acetone) - at		
					end of the work		
					50 mg/L - uri		
					(Acetone) - at		
					end of the work		
Chemical name	Denmark	Finland	Fra	nce	Germany DF		Germany TRGS
Propan-2-ol	-	-		-	25 mg/L (who		25 mg/L (whole
67-63-0						e end	blood - Acetone end
					of shift)		of shift)
					25 mg/L (urin		25 mg/L (urine -
							Acetone end of shift)
					25 mg/L - BAT		
					of exposure or		
					of shift) urin		
					25 mg/L - BAT		
					of exposure or of shift) bloc		
Chamical name	Hungony	Irolon	d	Ital	/		
Chemical name	Hungary	Irelan		nai	/ MDLPS	40 m	Italy AIDII g/L - urine (Acetone)
Propan-2-ol 67-63-0	-	40 mg/L (urine end of shift a			-		g/L - unne (Acetone) nd of shift at end of
67-63-0						- er	workweek
Chemical name	Latvia	workwe Luxembo		D	omania		Slovakia
	Latvia	Luxembu	Jurg				SIUVAKIA
Propan-2-ol 67-63-0	-	-			urine (Acetone) d of shift		-
Chemical name	Slovenia	Spair			itzerland		United Kingdom
	25 mg/L - blood (Acetone						
Propan-2-ol 67-63-0	- at the end of the work				urine - Acetone		-
07-03-0	- at the end of the work	end of work	week)		d of shift) nol/L (urine -		
	25 mg/L - urine (Acetone				e end of shift)		
	- at the end of the work	′			(whole blood -		
	shift				e end of shift)		
	Shint				L (whole blood -		
					e end of shift)		
				,		I	

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
pentane 109-66-0	-	432 mg/kg bw/day [4] [6]	3000 mg/m³ [4] [6]
Propan-2-ol 67-63-0	-	888 mg/kg bw/day [4] [6]	500 mg/m³ [4] [6]

Derived No Effect Level (DNEL) - General Public .

Chemical name	Oral	Dermal	Inhalation
pentane 109-66-0	214 mg/kg bw/day [4] [6]	-	643 mg/m³ [4] [6]
Propan-2-ol 67-63-0	26 mg/kg bw/day [4] [6]	-	89 mg/m³ [4] [6]

Predicted No Effect Concentration (PNEC) .

Chemical name	Freshwater	Freshwater	Marine water	Marine water	Air
		(intermittent release)		(intermittent release)	
pentane 109-66-0	230 µg/L	880 µg/L	230 µg/L	-	-
Propan-2-ol 67-63-0	140.9 mg/L	140.9 mg/L	140.9 mg/L	-	-

Chemical name	Freshwater	Marine sediment	Sewage treatment	Soil	Food chain
	sediment				
pentane	1.2 mg/kg sediment	1.2 mg/kg sediment	3600 µg/L	0.55 mg/kg soil dw	-
109-66-0	dw	dw			
Propan-2-ol	552 mg/kg sediment	552 mg/kg sediment	2251 mg/L	28 mg/kg soil dw	160 mg/kg food
67-63-0	dw	dw	-		

8.2. Exposure controls

Engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye/face protection	Tight sealing safety goggles.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.
Environmental exposure controls	No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties				
Physical state	Liquid			
Appearance	Colourless			
Colour	Colourless			
Odour	Organic solvents.			
Odour threshold	No information available			

Property_	Values_	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang	eNo data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Flash point	-48 °C	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
рН	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	Kinematic viscosity = 20.5 mm ² /s	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	0.63	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regards to physical hazard classes

Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidizing.

9.2.2. Other safety characteristics No information available

10.1. Reactivity

Reactivity

No information available.

10.2. Chemical stability

Stability

Stable under normal conditions.

Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. May cause drowsiness or dizziness.
Eye contact	Specific test data for the substance or mixture is not available. May cause irritation.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Ingestion	Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Acute toxicity

Numerical measures of toxicity No information available

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	99,999.00 mg/kg
ATEmix (dermal)	3,039.70 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-vapour)	99,999.00 mg/l
ATEmix (inhalation-dust/mist)	383.20 mg/l

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
pentane	> 2000 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	= 364 g/m³ (Rat)4 h
Propan-2-ol	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	> 10000 ppm (Rat)6 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.	
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity	Based on available data, the classification criteria are not met.	
Reproductive toxicity	Based on available data, the classification criteria are not met.	
STOT - single exposure	May cause drowsiness or dizziness.	
STOT - repeated exposure	No information available.	
Aspiration hazard	May be fatal if swallowed and enters airways.	
11.2. Information on other hazards	<u>S</u>	
11.2.1. Endocrine disrupting properties		
Endocrine disrupting properties	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.	
11.2.2. Other information		
Other adverse effects	No information available.	
SECTION 12, Ecological in	Armation	

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
pentane	-	LC50: =9.87mg/L (96h, Oncorhynchus mykiss) LC50: =11.59mg/L (96h, Pimephales promelas) LC50: =9.99mg/L (96h, Lepomis macrochirus)	-	EC50: =9.74mg/L (48h, Daphnia magna)
Propan-2-ol	EC50: >1000mg/L (96h, Desmodesmus subspicatus) EC50: >1000mg/L (72h, Desmodesmus subspicatus)	LC50: =9640mg/L (96h, Pimephales promelas) LC50: =11130mg/L (96h, Pimephales promelas) LC50: >1400000µg/L (96h, Lepomis	-	EC50: =13299mg/L (48h, Daphnia magna)

	macrochirus)	

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

There is no data for this product.

Chemical name	Partition coefficient
pentane	3.45
Propan-2-ol	0.05

12.4. Mobility in soil

Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
pentane	The substance is not PBT / vPvB
Propan-2-ol	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

SECTION 14: Transport information

14.1 UN number or ID number	UN1993
14.2 UN proper shipping name	Flammable liquid, n.o.s. (pentane, Propan-2-ol)
14.3 Transport hazard class(es)	3
14.4 Packing group	II
Description	UN1993, Flammable liquid, n.o.s. (pentane, Propan-2-ol), 3, Il

14.5 Environmental hazards14.6 Special precautions for user Special Provisions ERG Code	Yes A3 3H
IMDG14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group Description14.5Environmental hazards14.6Special precautions for user Special Provisions EmS-No14.7Maritime transport in bulk according to IMO instruments	UN1993 Flammable liquid, n.o.s. (pentane, Propan-2-ol) 3 II UN1993, Flammable liquid, n.o.s. (pentane, Propan-2-ol), 3, II, (-48°C c.c.), Marine pollutant Yes 274 F-E, S-E No information available
RID14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group Description14.5Environmental hazards14.6Special precautions for user Special Provisions Classification code	UN1993 Flammable liquid, n.o.s. (pentane, Propan-2-ol) 3 II UN1993, Flammable liquid, n.o.s. (pentane, Propan-2-ol), 3, II, Environmentally Hazardous Yes 274, 601, 640D F1
 <u>ADR</u> 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions Classification code Tunnel restriction code 	UN1993 Flammable liquid, n.o.s. (pentane, Propan-2-ol) 3 II UN1993, Flammable liquid, n.o.s. (pentane, Propan-2-ol), 3, II, (D/E), Environmentally Hazardous Yes 274, 601, 640C F1 (D/E)

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical name	French RG number
pentane - 109-66-0	RG 84
Propan-2-ol - 67-63-0	RG 84

Water hazard class (WGK) obviously hazardous to water (WGK 2)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorisation per
	Annex XVII	REACH Annex XIV
Propan-2-ol - 67-63-0	Use restricted. See item 75.	-

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Propan-2-ol - 67-63-0	Product-type 2: Disinfectants and algaecides not intended
	for direct application to humans or animals Product-type 4:
	Food and feed area Product-type 1: Human hygiene

International Inventories	
TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIOC	Contact supplier for inventory compliance status

Legend:

TSCA- United States Toxic Substances Control Act Section 8(b) InventoryDSL/NDSL- Canadian Domestic Substances List/Non-Domestic Substances ListEINECS/ELINCS- European Inventory of Existing Chemical Substances/European List of Notified Chemical SubstancesENCS- Japan Existing and New Chemical SubstancesIECSC- China Inventory of Existing Chemical SubstancesKECL- Korean Existing and Evaluated Chemical SubstancesPICCS- Philippines Inventory of Chemicals and Chemical SubstancesAIIC- Australian Inventory of Industrial ChemicalsNZIOC- New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report

No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour

H304 - May be fatal if swallowed and enters airways

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend	Section 8: Exposure controls/personal protection	1	
TŴĂ	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

Classification procedure			
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used		
Acute oral toxicity	Calculation method		
Acute dermal toxicity	Calculation method		
Acute inhalation toxicity - gas	Calculation method		
Acute inhalation toxicity - vapour	Calculation method		
Acute inhalation toxicity - dust/mist	Calculation method		
Skin corrosion/irritation	Calculation method		
Serious eye damage/eye irritation	Calculation method		
Respiratory sensitisation	Calculation method		
Skin sensitisation	Calculation method		
Mutagenicity	Calculation method		
Carcinogenicity	Calculation method		
Reproductive toxicity	Calculation method		
STOT - single exposure	Calculation method		
STOT - repeated exposure	Calculation method		
Acute aquatic toxicity	Calculation method		
Chronic aquatic toxicity	Calculation method		
Aspiration hazard	Calculation method		
Ozone	Calculation method		
Flammable liquids	On basis of test data		

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC) European Chemicals Agency (ECHA) (ECHA_API) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date 21/11/2023

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Disclaimer

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End of Safety Data Sheet