

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 01-Feb-2024

Revision Number 1

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

1.1. Product identifier	
Product Code(s)	DRE-XA13180000AL
Product Name	EPN 100 µg/mL in Acetonitrile
Form	Not applicable
Unique Formula Identifier (UFI)	CTUS-80M6-000W-PEQ8
Pure substance/mixture	Mixture
1.2. Relevant identified uses of the	substance or mixture and uses advised against
Recommended use	Laboratory use
Uses advised against	No information available
1.3. Details of the supplier of the sa	fety data sheet
<u>Supplier</u>	
LGC Limited Queens Road Teddington Middlesex TW11 0LY UNITED KINGDOM :+44 (0) 20 8943 7000 Fax :+44 (0) 20 8943 2767 eMail : gb@lgcstandards.com	
Web : www.lgcstandards.com	
For further information, please contact	_
E-mail address	sds-request@lgcgroup.com
1.4. Emergency telephone number	
Emergency Telephone	For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970



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Emergency Telephone - §45 - (EC)1272/2008					
Europe	112				
Austria	No information available				
Bulgaria					
Croatia					
Cyprus					
Czech Republic					
Denmark					
France					
Hungary					
Ireland					
Italy					
Lithuania					
Luxembourg					
Netherlands					
Norway					
Portugal					
Romania					
Slovakia					
Slovenia					
Spain					
Sweden					
Switzerland					

# **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture** Classification according to

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

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 4 - (H312)
Acute toxicity - Inhalation (Vapours)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 2 - (H319)
Flammable liquids	Category 2 - (H225)

#### 2.2. Label elements

**Contains Acetonitrile** 



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# Danger

### Hazard statements

H302 - Harmful if swallowed H312 - Harmful in contact with skin H319 - Causes serious eye irritation H332 - Harmful if inhaled

H225 - Highly flammable liquid and vapour

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

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P264 - Wash face, hands and any exposed skin thoroughly after handling

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

P321 - Specific treatment (see supplemental first aid instructions on this label)

P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

P403 + P235 - Store in a well-ventilated place. Keep cool

#### 2.3. Other hazards

No information available.

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.

Chemical name	EU - REACH (1907/2006) - Article 59(1)	EU - REACH (1907/2006) - Endocrine
	- Candidate List of Substances of Very	Disruptor Assessment List of
	High Concern (SVHC) for Authorisation	Substances
Acetonitrile	-	-
EPN	-	-

# SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable



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#### 3.2 Mixtures

#### Chemical nature

Mixture of organic compounds.

Chemical name	Weight-%	REACH registration number	· ·	Classification according to Regulation (EC) No.		M-Factor	M-Factor (long-term)
		nambor		1272/2008 [CLP]	limit (SCL)		(long torn)
Acetonitrile	80 - 100	-	200-835-2	Acute Tox. 4 (H302)	-		
75-05-8				Acute Tox. 4 (H312)			
				Acute Tox. 4 (H332)			
				Eye Irrit. 2 (H319)			
				Flam. Liq. 2 (H225)			
EPN	<0.1	-	218-276-8	Acute Tox. 1 (H310)			
2104-64-5				Acute Tox. 1 (H330)			
				Acute Tox. 2 (H300)			
				Aquatic Acute 1			
				(H400)			
				Aquatic Chronic 1			
				(H410)			
				. ,			

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

#### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

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
Acetonitrile 75-05-8	No data available	2000	26.8	No data available	No data available
EPN 2104-64-5	7	25	No data available	No data available	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



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General advice	Show this safety data sheet to the doctor in attendance.					
Inhalation	Remove to fresh air. If symptoms persist, call a doctor. If breathing has stopped, give artificial respiration. Get medical attention immediately.					
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. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.					
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a doctor.					
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get 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 contact with skin, eyes or clothing. Avoid breathing vapours or mists.					
4.2. Most important symptoms and	effects, both acute and delayed					
Symptoms	May cause redness and tearing of the eyes. Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.					
4.3. Indication of any immediate me	edical attention and special treatment needed					
Note to doctors	Treat symptomatically.					
SECTION 5: Firefighting m	neasures					
5.1. Extinguishing media	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 the 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



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Special protective equipment and	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
precautions for fire-fighters	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. Avoid breathing vapours or mists.
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 contai	nment 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



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Advice on safe handling	Use personal protection equipment. 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. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment.
General hygiene considerations	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. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.
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. Keep out of the reach of children.

Store locked up. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is

### 7.3. Specific end use(s)

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

given on the CoA.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Acetonitrile	TWA: 40 ppm	TWA: 40 ppm	TWA: 20 ppm	TWA: 40 ppm	TWA: 40 ppm
75-05-8	TWA: 70 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>	TWA: 34 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>
	*	STEL 160 ppm	Sk*	Sk*	Sk*
		STEL 280 mg/m <sup>3</sup>			
		Sk*			



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EPN		TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>		TWA: 0.5 mg/m <sup>3</sup>
2104-64-5	-	STEL 5 mg/m <sup>3</sup>	*	-	TWA. 0.5 mg/m <sup>o</sup>
Chemical name	Curarua	H* Czech Republic	Denmark	Estonia	Finland
Acetonitrile	Cyprus TWA: 40 ppm	TWA: 70 mg/m <sup>3</sup>	Denmark TWA: 40 ppm	TWA: 40 ppm	TWA: 20 ppm
75-05-8	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup>	Sk*	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup>	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 34 mg/m <sup>3</sup>
75-05-8	TWA. 70 mg/m²	Ceiling: 100 mg/m <sup>3</sup>	STEL: 80 ppm	Sk*	STEL: 40 ppm
		Cening. 100 mg/m	STEL: 140 mg/m <sup>3</sup>	OK	STEL: 68 mg/m <sup>3</sup>
			Sk*		Sk*
EPN	-	-	TWA: 0.1 mg/m <sup>3</sup>	-	-
2104-64-5			H*		
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Acetonitrile	TWA: 40 ppm	TWA: 10 ppm	TWA: 10 ppm	TWA: 40 ppm	TWA: 40 ppm
75-05-8	TWA: 70 mg/m <sup>3</sup>	TWA: 17 mg/m <sup>3</sup>	TWA: 17 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>
	Sk*	Sk*	Peak: 20 ppm	STEL: 60 ppm	STEL: 5 mg/m <sup>3</sup>
			Peak: 34 mg/m <sup>3</sup>	STEL: 105 mg/m <sup>3</sup>	Sk*
EPN			<u>Sk*</u> TWA: 0.5 mg/m <sup>3</sup>	Sk* TWA: 0.5 mg/m <sup>3</sup>	
2104-64-5	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup> H*	Peak: 1 mg/m <sup>3</sup>	skin - potential for	-
2104-04-5		11	reak. Ting/III° *	cutaneous	
				absorption	
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Acetonitrile	TWA: 40 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 40 ppm	TWA: 40 ppm
75-05-8	TWA: 70 mg/m <sup>3</sup>	TWA: 35 mg/m <sup>3</sup>	TWA: 34 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>
	STEL: 120 ppm	Sk*	Sk*	Sk*	Sk*
	STEL: 310 mg/m <sup>3</sup>				
	Sk*				
EPN	TWA: 0.1 mg/m <sup>3</sup>	-	TWA: 0.1 mg/m <sup>3</sup>	-	-
2104-64-5	STEL: 0.3 mg/m <sup>3</sup>	NA - 14 -	×	NI	Deland
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Acetonitrile 75-05-8	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup>	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 34 mg/m <sup>3</sup>	TWA: 30 ppm TWA: 50 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup> STEL: 140 mg/m <sup>3</sup>
75-05-8	Sk*	Sk*	STEL: 4.5 ppm	STEL: 45 ppm	STEL. 140 mg/m <sup>3</sup> Sk*
	SK .	SK	STEL: 5 mg/m <sup>3</sup>	STEL: 45 ppm STEL: 75 mg/m <sup>3</sup>	SK
			Sk*	Sk*	
EPN	-	-	-	TWA: 0.5 mg/m <sup>3</sup>	-
2104-64-5				STEL: 1.5 mg/m <sup>3</sup>	
				H*	
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Acetonitrile	TWA: 40 ppm	TWA: 40 ppm	TWA: 40 ppm	TWA: 40 ppm	TWA: 40 ppm
75-05-8	TWA: 70 mg/m <sup>3</sup>	TWA: 68 mg/m <sup>3</sup>			
	Sk*	STEL: 1 mg/m <sup>3</sup>	Sk*	STEL: 140 mg/m <sup>3</sup>	Sk*
		Sk*	Ceiling: 5 mg/m <sup>3</sup>	STEL: 80 ppm	
EPN	TWA: 0.1 mg/m <sup>3</sup>			Sk* TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
	TWA. U. LING/IN	-	-	1 VVA. 0.5 Mg/m <sup>2</sup>	IVVA. U. I Mg/M°



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2104-64-5	P*			STEL: S	TEL mg/m <sup>3</sup>	vía dérmica*
Chemical name	SI	veden	Switzerland		Unit	ed Kingdom
Acetonitrile	NGV	: 30 ppm	TWA: 20 ppm		TM	/A: 40 ppm
75-05-8	NGV:	50 mg/m <sup>3</sup>	TWA: 34 mg/m <sup>2</sup>	3	TW	A: 68 mg/m <sup>3</sup>
		e KGV: 60 ppm	STEL: 40 ppm		ST	EL: 60 ppm
	Vägledande	KGV: 100 mg/m <sup>3</sup>	STEL: 68 mg/m	3	STEI	_: 102 mg/m <sup>3</sup>
		Sk*	Sk*			Sk*
EPN		-	TWA: 0.5 mg/m	3		-
2104-64-5			H* -			

### **Biological occupational exposure limits**

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Acetonitrile	-	-	-	6.5 mg/24 hours -	-
75-05-8				urine (Thiocyanates)	
				<ul> <li>urine collected over</li> </ul>	
				24 hours	
				<3 mg - urine and	
				blood (Thiocyanate	
				ratio in urine (mg/g	
				Creatinine) and	
				Carboxyhemoglobin	
				in blood (%)) - urine	
				and blood collected	
				at the end of the	
				work shift	
EPN	-	-	50 % of the	-	-
2104-64-5			reference value for		
			the person -		
			erythrocytes		
			(Acetyl-cholinestera		
			se) - at the end of		
			exposure or end of		
			work shift, for		
			prolonged exposure		
			- after several work		
			shifts		
			30 % on the average		
			for the group of		
			exposed persons -		
			erythrocytes		
			(Acetyl-cholinestera		
			se) - at the end of		



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	· · ·				r		· · · · · · · · · · · · · · · · · · ·
			exposure				
			work s				
			prolonged				
			<ul> <li>after sev</li> </ul>				
			shi				
Chemical name	Denmark	Finland	Fra		Germany DF		Germany TRGS
EPN	-	-	70 % of b	aseline -			70 % (erythrocytes -
2104-64-5			erythro		Acetylcholinest	erase	Acetylcholinesterase
			(Choline	esterase	end of shift		end of shift)
			activ	ity) -			70 % (erythrocytes -
			discret	ionary			Acetylcholinesterase
					for long-terr		for long-term
					exposures: at	the	exposures: at the
					end of the shift	after	end of the shift after
					several shift	s)	several shifts)
					70 % - BAT (ei		
					exposure or er		
					shift) erythroc		
					70 % - BAT (	for	
					long-term		
					exposures: at		
					end of the shift		
					several shift	s)	
					erythrocyte	s	
Chemical name	Hungary	Ireland	-	Ital	y MDLPS		Italy AIDII
EPN	-	70 % of base			-		of baseline - plasma
2104-64-5		blood ce					utyrylcholinesterase
		Cholinesteras	e activity				ctivity) - end of shift
		discretion	ary)			70	% of baseline - red
							blood cells
						(Cho	olinesterase activity) -
							discretionary
Chemical name	Slovenia	Spain		Sw	ritzerland		United Kingdom
EPN		70 % of baselin			-		-
2104-64-5	whole blood	Erythroc					
	(Acetylcholinesterase) - at	cholineste	erase				
	the end of the work shift;	discretion	ary)				
	for long-term exposure: at						
	the end of the work shift						
	after several consecutive						
	workdays						

Derived No Effect Level (DNEL) Predicted No Effect Concentration No information available. (PNEC)

No information available.



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8.2. Exposure controls

Personal protective equipment

Eye/face protection	Tight sealing safety goggles. Avoid contact with eyes. Wear safety glasses with side shields (or goggles).
Hand protection	Wear protective butyl rubber gloves. Wear suitable gloves. Impervious gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.
Skin and body protection	Long sleeved clothing. Chemical resistant apron. Antistatic boots. Wear suitable protective clothing.
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	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. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical a	and chemical properties	
Physical state	Liquid	
Appearance	Liquid	
Colour	colourless	
Odour	Aromatic.	
Odour threshold	No information available	
Property_	Values_	Remarks • Method
Melting point / freezing point	-45.72 °C	None known
Initial boiling point and boiling rang	<b>∣e</b> 81.61 °C	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	17 Vol%	
limits		
Lower flammability or explosive	3 Vol% - 50 g/m³	



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limits Flash point 2 °C Autoignition temperature 524 °C **Decomposition temperature** pН pH (as aqueous solution) Kinematic viscosity **Dynamic viscosity** Water solubility Solubility(ies) Partition coefficient Vapour pressure **Relative density Bulk density** Liquid Density **Relative vapour density Particle characteristics Particle Size Particle Size Distribution** No information available

#### No data available No data available No data available 0.35 mPas No data available No data available -0.34 94.51 - 98.64 hPa 0.7857 No data available No data available 1.42 No information available

None known None known None known None known No information available None known @ 25°C None known None known None known @ 20°C None known None known

#### 9.2. Other information

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

## SECTION 10: Stability and reactivity

#### 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.



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10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Excessive heat.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

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. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).		
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.		
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation. May be absorbed through the skin in harmful amounts. Harmful in contact with skin. (based on components).		
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if swallowed. (based on components).		
Symptoms related to the physical, chemical and toxicological characteristics			
Symptoms	May cause redness and tearing of the eyes. Coughing and/ or wheezing.		
Numerical measures of toxicity			
Acute toxicity			
ATEmix (oral)	d based on chapter 3.1 of the GHS document 500.10 mg/kg 1,100.10 mg/kg 99,999.00 ppm		



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ATEmix (inhalation-dust/mist)	99,999.0000	mg/l
ATEmix (inhalation-vapour)	11.00 mg/l	

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Acetonitrile	= 2460 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 26.8 mg/L (Rat)4 h
EPN	= 7 mg/kg (Rat) = 24 mg/kg (Rat)	= 25 mg/kg (Rat) = 538 mg/kg (Rat)	= 106 mg/m³ (Rat)1 h

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

Skin corrosion/irritation	May cause skin irritation.		
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.		
Respiratory or skin sensitisation	No information available.		
Germ cell mutagenicity	No information available.		
Carcinogenicity	No information available.		
Reproductive toxicity	No information available.		
STOT - single exposure	No information available.		
STOT - repeated exposure	No information available.		
Aspiration hazard	No information available.		
11.2. Information on other hazards			



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### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects

No information available.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

#### Ecotoxicity

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Acetonitrile	-	LC50: 1600 - 1690mg/L (96h, Pimephales promelas) LC50: =1000mg/L (96h, Pimephales promelas) LC50: =1850mg/L (96h, Lepomis macrochirus) LC50: =1650mg/L (96h, Poecilia reticulata)	-	EC50: 3,600 mg/l (48h, daphnia)
EPN	-	LC50: 0.060 - 0.110mg/L (96h, Lepomis macrochirus) LC50: 0.0648 - 0.0953mg/L (96h, Pimephales promelas) LC50: 0.110 - 0.900mg/L (96h, Oncorhynchus mykiss) LC50: =0.032mg/L (96h, Poecilia reticulata) LC50: =0.2mg/L (96h, Pimephales promelas)	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.



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#### 12.3. Bioaccumulative potential

Bioaccumulation

There is no data for this product.

#### **Component Information**

Chemical name	Partition coefficient
Acetonitrile	-0.34
EPN	3.85

#### 12.4. Mobility in soil

Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

No information available.

Chemical name	PBT and vPvB assessment
Acetonitrile	The substance is not PBT / vPvB

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

#### 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**

IATA 14.1 UN number or ID number UN1648



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<ul> <li>14.2 UN proper shipping name</li> <li>14.3 Transport hazard class(es)</li> <li>14.4 Packing group <ul> <li>Description</li> </ul> </li> <li>14.5 Environmental hazards</li> <li>14.6 Special precautions for user <ul> <li>Special Provisions</li> <li>ERG Code</li> </ul> </li> </ul>	Acetonitrile mixture 3 II UN1648, Acetonitrile mixture, 3, II Not applicable None 3L
<ul> <li>IMDG</li> <li>14.1 UN number or ID number</li> <li>14.2 UN proper shipping name</li> <li>14.3 Transport hazard class(es)</li> <li>14.4 Packing group Description</li> <li>14.5 Marine pollutant</li> <li>14.6 Special precautions for user Special Provisions EmS-No.</li> <li>14.7 Maritime transport in bulk according to IMO instruments</li> </ul>	UN1648 Acetonitrile mixture 3 II UN1648, Acetonitrile mixture, 3, II, (2°C c.c.) NP None F-E, S-D No information available No information available
RID14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing groupDescription14.5Environmental hazards14.6Special precautions for userSpecial ProvisionsClassification code	UN1648 Acetonitrile mixture 3 II UN1648, Acetonitrile mixture, 3, II Not applicable None F1
ADR 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	UN1648 Acetonitrile mixture 3 II UN1648, Acetonitrile mixture, 3, II, (D/E) Not applicable None F1 (D/E)



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## **SECTION 15: Regulatory information**

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

#### National regulations

France

#### **Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number	Title
Acetonitrile 75-05-8	RG 84	-
EPN 2104-64-5	RG 34	-

Water hazard class (WGK)

obviously hazardous to water (WGK 2)

Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650) . Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).



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#### **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 contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

# DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Acetonitrile - 75-05-8	75.	

#### Persistent Organic Pollutants

Not applicable

#### Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS P5b - FLAMMABLE LIQUIDS P5c - FLAMMABLE LIQUIDS

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories TSCA	Complies under research and development exemption or is regulated by a different government agency.
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

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances



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- **ENCS** Japan Existing and New Chemical Substances
- **IECSC** China Inventory of Existing Chemical Substances
- **KECL** Korean Existing and Evaluated Chemical Substances
- **PICCS** Philippines Inventory of Chemicals and Chemical Substances
- AICS Australian Inventory of Chemical Substances

#### 15.2. Chemical safety assessment

Chemical Safety Report A Chemical Safety Assessment is not required for this substance

## **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
- H300 Fatal if swallowed
- H302 Harmful if swallowed
- H310 Fatal in contact with skin
- H312 Harmful in contact with skin
- H319 Causes serious eye irritation
- H330 Fatal if inhaled
- H332 Harmful if inhaled
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: Exposure controls/personal protection

TWĂ	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation

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



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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) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fundicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification 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

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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