

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

Revision date 15-Dec-2023 Revision Number 1

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

#### 1.1. Product identifier

Product Code(s) DRE-XA15890000AL

Product Name Parathion-methyl 100 µg/mL in Acetonitrile

Form Not applicable

Unique Formula Identifier (UFI) WFMR-102R-300P-0U7E

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 safety data sheet

#### Supplier

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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## DRE-XA15890000AL - Parathion-methyl 100 µg/mL in Acetonitrile

Emergency Telephone - §45 - (E	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]

11094141011 (20) 1101 127272000 [02.1]	
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)
Chronic aquatic toxicity	Category 1 - (H410)
Flammable liquids	Category 2 - (H225)

## 2.2. Label elements

Contains Acetonitrile

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#### Signal word Danger

## **Hazard statements**

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H410 - Very toxic to aquatic life with long lasting effects

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

P273 - Avoid release to the environment

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

P391 - Collect spillage

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

#### 2.3. Other hazards

Harmful to aquatic life.

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	-	-
Parathion-methyl (ISO)	-	-

## SECTION 3: Composition/information on ingredients

#### 3.1 Substances

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Not applicable

#### 3.2 Mixtures

**Chemical nature** 

Mixture of organic compounds.

Chemical name	Weight-%	REACH registration number	,	Classification according to Regulation (EC) No.	concentration	M-Factor	M-Factor (long-term)
				1272/2008 [CLP]	limit (SCL)		
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)			
Parathion-methyl	<0.1	-	206-050-1	Flam. Liq. 3 (H226)		100	100
(ISO)				Acute Tox. 1 (H300)			
298-00-0				Acute Tox. 1 (H310)			
				Acute Tox. 1 (H330)			
				STOT RE 2 (H373)			
				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
Parathion-methyl (ISO) 298-00-0	2.9	6	0.0642 0.0718	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)

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## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

**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 medical attention and special treatment needed

**Note to doctors** Treat symptomatically.

## **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 the substance or mixture

**Specific hazards arising from the** Risk of ignition. Keep product and empty container away from heat and sources of ignition.

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**chemical** 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. 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 containment 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.

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## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

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, including 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 given on the CoA.

## 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**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Acetonitrile	TWA: 40 ppm	TWA: 40 ppm	TWA: 20 ppm	TWA: 40 ppm	TWA: 40 ppm

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					I / o I
75-05-8	TWA: 70 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup> STEL 160 ppm STEL 280 mg/m <sup>3</sup> H*	TWA: 34 mg/m <sup>3</sup> D*	TWA: 70 mg/m <sup>3</sup> K*	TWA: 70 mg/m <sup>3</sup> *
Parathion-methyl (ISO) 298-00-0	-	TWA: 0.2 mg/m³ STEL 0.4 mg/m³ H*	TWA: 0.02 mg/m <sup>3</sup> *	-	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Acetonitrile	TWA: 40 ppm	TWA: 70 mg/m <sup>3</sup>	TWA: 40 ppm	TWA: 40 ppm	TWA: 20 ppm
75-05-8	TWA: 70 mg/m <sup>3</sup>	Ceiling: 100 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>	TWA: 34 mg/m <sup>3</sup>
		D*	H*	A*	STEL: 40 ppm
			STEL: 80 ppm		STEL: 68 mg/m <sup>3</sup>
			STEL: 140 mg/m <sup>3</sup>		iho*
Parathion-methyl (ISO)	-	-	TWA: 0.2 mg/m <sup>3</sup>	-	TWA: 0.2 mg/m <sup>3</sup>
298-00-0			H*		STEL: 0.6 mg/m <sup>3</sup>
<u> </u>	_		2 552		iho*
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>
	•	H*	Peak: 20 ppm	STEL: 60 ppm	STEL: 5 mg/m <sup>3</sup>
			Peak: 34 mg/m³ *	STEL: 105 mg/m³ *	b*
Parathion-methyl (ISO)	TWA: 0.2 mg/m <sup>3</sup>			TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>
298-00-0	*	-	-	STEL: 0.6 mg/m <sup>3</sup>	*
200 00 0				skin - potential for	
				cutaneous	
				absorption	
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Acetonitrile	TWA: 40 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 40 ppm	O*
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: 40 ppm
	STEL: 120 ppm	cute*	cute*	Ada*	TWA: 70 mg/m <sup>3</sup>
	STEL: 310 mg/m <sup>3</sup>				
	Sk*				
Parathion-methyl (ISO)	TWA: 0.02 mg/m <sup>3</sup>	-	TWA: 0.02 mg/m <sup>3</sup>	-	*
298-00-0	STEL: 0.06 mg/m <sup>3</sup>		*		TWA: 0.1 mg/m <sup>3</sup>
	Sk*				<u> </u>
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Acetonitrile	Peau*	skin*	TWA: 20 ppm	TWA: 30 ppm	STEL: 140 mg/m <sup>3</sup>
75-05-8	TWA: 40 ppm	TWA: 40 ppm	TWA: 34 mg/m <sup>3</sup>	TWA: 50 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>
	TWA: 70 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>	STEL: 4.5 ppm STEL: 5 mg/m <sup>3</sup>	STEL: 45 ppm STEL: 75 mg/m <sup>3</sup>	skóra*
			H*	H*	
Parathion-methyl (ISO)	_	_	- 11	П TWA: 0.2 mg/m <sup>3</sup>	STEL: 0.6 mg/m <sup>3</sup>
298-00-0	-	<u> </u>	<u>-</u>	STEL: 0.6 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
290-00-0				H*	*
				11	

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Chemical name		Portugal	Romania	Slovakia	Slo	venia	Spain
Acetonitrile	TV	/A: 40 ppm	TWA: 40 ppm	TWA: 40 ppm	TWA:	40 ppm	TWA: 40 ppm
75-05-8	TW	A: 70 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>	TWA:	70 mg/m <sup>3</sup>	TWA: 68 mg/m <sup>3</sup>
	(	Cutânea*	STEL: 1 mg/m <sup>3</sup>	K*	STEL: 1	140 mg/m <sup>3</sup>	vía dérmica*
			P*	Ceiling: 5 mg/m <sup>3</sup>	STEL:	: 80 ppm	
						K*	
Parathion-methyl (ISO)	TWA	: 0.02 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	-		-	TWA: 0.02 mg/m <sup>3</sup>
298-00-0		P*	STEL: 0.3 mg/m <sup>3</sup>				vía dérmica*
			*				
Chemical name		Sı	weden	Switzerland		Uni	ted Kingdom
Acetonitrile		NGV	: 30 ppm	TWA: 20 ppm		TWA: 40 ppm	
75-05-8			50 mg/m <sup>3</sup>	TWA: 34 mg/m	3	TW	'A: 68 mg/m³
			e KGV: 60 ppm	STEL: 40 ppm		STEL: 60 ppm	
Vägledande		KGV: 100 mg/m <sup>3</sup>	STEL: 68 mg/m <sup>3</sup>		STEL: 102 mg/m <sup>3</sup>		
	H*		H*	H*			Sk*
Parathion-methyl (ISC	O)		-	TWA: 0.2 mg/m	1 <sup>3</sup>		-
298-00-0				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)	
				- urine collected over	
				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	
Darothian mathyl (ICO)			FO 0/ of the	work shift	
Parathion-methyl (ISO) 298-00-0	-	-	50 % of the reference value for	30 % inhibition - blood (Acetyl	-
298-00-0			the person -	cholinesterase	
			erythrocytes	activity) - at the end	
			(Acetyl-cholinestera		
			se) - at the end of	30 % inhibition -	
				erythrocytes (Acetyl	
			work shift, for	cholinesterase	
			,	activity) - at the end	
			- after several work		

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Chemical name	Denmark	Finland	30 % on the for the exposed erythr (Acetyl-ch se) - at the exposure work s prolonged - after sey sh	ifts ne average group of persons - ocytes nolinestera he end of or end of hift, for d exposure veral work ifts ince	Germany DF	
Parathion-methyl (ISO)	-	-	70 % of b	oaseline -	70 % (erythrocy	ytes - 70 % (erythrocytes -
298-00-0 ` ′				ocytes		erase Acetylcholinesterase
				esterase	end of shift	
			•	/ity) -		ytes - 70 % (erythrocytes -
			discre	tionary	Acetylcholinest	erase Acetylcholinesterase
					for long-terr	
					exposures: at	
						after end of the shift after
					several shift	
					70 % - BAT (eı	
					exposure or er	
					shift) erythroc	
					70 % - BAT ( long-term	
					exposures: at	
					end of the shift	
					several shift	
					erythrocyte	
Chemical name	Hungary	Ireland	d	Italy	/ MDLPS	Italy AIDII
Parathion-methyl (ISO)	-	70 % of base	line (red		-	60 % of baseline - plasma
298-00-0		blood ce	lls - `			(Butyrylcholinesterase
		Cholinesteras				activity) - end of shift
		discretion	ary)			70 % of baseline - red
						blood cells
						(Cholinesterase activity) -
Chaminal many	Clavania	0		C	:t	discretionary
Chemical name	Slovenia	Spain		SW	itzerland	United Kingdom
Parathion-methyl (ISO) 298-00-0	- erythrocyte fraction of whole blood	70 % of baselin			-	-
230-00-0	(Acetylcholinesterase) - at					
	the end of the work shift;	discretion				
	for long-term exposure: at		· ~· <i>y</i> /			
	the end of the work shift					
				•		

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after several consecutive		
workdays		

Derived No Effect Level (DNEL)
Predicted No Effect Concentration

(PNEC)

No information available. No information available.

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 and chemical properties

Physical state Liquid
Appearance Liquid
Colour colourless
Odour Aromatic.

Odour threshold No information available

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None known

## DRE-XA15890000AL - Parathion-methyl 100 µg/mL in Acetonitrile

PropertyValuesRemarks• MethodMelting point / freezing point-45.72 °CNone knownInitial boiling point and boiling range81.61 °CNone knownFlammabilityNo data availableNone known

Flammability Limit in Air

Upper flammability or explosive 17 Vol%

imits

Lower flammability or explosive 3 Vol% - 50 g/m<sup>3</sup>

limits

Flash point2 °CNone knownAutoignition temperature524 °CNone knownDecomposition temperatureNone known

Decomposition temperature<br/>pHNo data availableNone knownpH (as aqueous solution)No data availableNo information available

Kinematic viscosityNo data availableNone knownDynamic viscosity0.35 mPa s@ 25°CWater solubilityNo data availableNone knownSolubility(ies)No data availableNone knownPartition coefficient-0.34None known

Vapour pressure94.51 - 98.64 hPa@ 20°CRelative density0.7857None known

Bulk density

No data available
Liquid Density

No data available

Relative vapour density 1.42 None known

**Particle characteristics** 

Particle SizeNo information availableParticle Size DistributionNo information available

#### 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.

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**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. 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

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#### **Acute toxicity**

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

ATEmix (oral) 500.10 mg/kg
ATEmix (dermal) 1,100.10 mg/kg
ATEmix (inhalation-gas) 99,999.00 ppm
ATEmix (inhalation-dust/mist) 99,999.00 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
Parathion-methyl (ISO)	= 2.9 mg/kg (Rat)	= 6 mg/kg ( Rat )	= 257 mg/m³ (Rat)1 h = 287 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.

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**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

11.2. Information on other hazards

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 Very toxic to aquatic life with long lasting effects. Harmful to aquatic life.

**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)
Parathion-methyl (ISO)	-	-	-	EC50: 0.00009 - 0.0002mg/L (48h, Daphnia magna) EC50: 0.0048 - 0.0096mg/L (48h, Daphnia magna) EC50: 0.0053 - 0.0061mg/L (48h, Daphnia magna) EC50: =0.0073mg/L (48h, Daphnia magna)

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#### 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

**Component Information** 

Chemical name	Partition coefficient
Acetonitrile	-0.34
Parathion-methyl (ISO)	2.8

#### 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
Parathion-methyl (ISO)	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.

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## **SECTION 14: Transport information**

IATA

14.1 UN number or ID number UN1648

14.2 UN proper shipping name Acetonitrile mixture

14.3 Transport hazard class(es) 14.4 Packing group Ш

Description UN1648, Acetonitrile mixture, 3, II

14.5 Environmental hazards Yes

14.6 Special precautions for user

**Special Provisions** None **ERG Code** 3L

**IMDG** 

UN1648 14.1 UN number or ID number

14.2 UN proper shipping name Acetonitrile mixture

14.3 Transport hazard class(es) 3 14.4 Packing group Ш

Description UN1648, Acetonitrile mixture, 3, II, (2°C c.c.), Marine pollutant

14.5 Marine pollutant **Environmental hazards** Yes 14.6 Special precautions for user

**Special Provisions** 

F-E, S-D No information available EmS-No.

14.7 Maritime transport in bulk according to IMO instruments

No information available

RID

UN1648 14.1 UN number or ID number

14.2 UN proper shipping name Acetonitrile mixture

14.3 Transport hazard class(es) 3 14.4 Packing group Ш

Description UN1648, Acetonitrile mixture, 3, II, Environmentally Hazardous

14.5 Environmental hazards Yes

14.6 Special precautions for user

**Special Provisions** None Classification code F1

ADR

UN1648 14.1 UN number or ID number

14.2 UN proper shipping name Acetonitrile mixture

14.3 Transport hazard class(es) 3 14.4 Packing group

UN1648, Acetonitrile mixture, 3, II, (D/E), Environmentally Hazardous Description

14.5 Environmental hazards Yes

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14.6 Special precautions for user

Special Provisions None
Classification code F1
Tunnel restriction code (D/E)

## 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	RG 84	-
75-05-8		
Parathion-methyl (ISO)	RG 34	-
298-00-0		

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

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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).

### **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

## **Export Notification requirements**

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical name	European Export/Import Restrictions per (EC) 649/2012 - Annex
	Number
Parathion-methyl (ISO) - 298-00-0	l.1
	1.2
	1.3

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

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

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

Not applicable

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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
KECL
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

**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

H226 - 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

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

## Legend

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SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA 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
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, 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)

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)

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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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**End of Safety Data Sheet** 

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