

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

Revision date 07-Jan-2025

Revision Number 1

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

1.1. Product identifier	
Product Code(s)	DRE-XA15622910AL
Product Name	Nonanal-2,4-dinitrophenylhydrazone 100 µg/mL in Acetonitrile
Form	Not applicable
Unique Formula Identifier (UFI)	PNFX-N024-D00E-MHCD
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	ifety 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 contac	<u>t</u>
E-mail address	sds-request@lgcstandards.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 +1 703-741-3877



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Emergency Telephone - §4	5 - (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 (FC) No 1272/2008 [CLP]

Acute toxicity - Oral

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 and 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) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation	Disruptor Assessment List of
Acetonitrile	-	-

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-%		· · ·	Classification according to Regulation (EC) No.		M-Factor	M-Factor (long-term)
		number		1272/2008 [CLP]	limit (SCL)		(iong-term)
Acetonitrile 75-05-8	80 - 100	-	200-835-2	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Flam. Liq. 2 (H225)	-		

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	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	hour - dust/mist - mg/L	hour - vapour - mg/L	hour - gas - ppm
Acetonitrile	No data	2002	26.8	No data available	No data available
75-05-8	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.
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.



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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 5.1. Extinguishing media	neasures	
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		
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 precautionsEvacuate 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



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	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 conta	inment 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 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	Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this



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product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. 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, including any incompatibilities

Storage Conditions 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. 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 locked up.

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
75-05-8	TWA: 70 mg/m ³	TWA: 70 mg/m ³	TWA: 34 mg/m ³	TWA: 70 mg/m ³	TWA: 70 mg/m ³
	Sk*	STEL 160 ppm	Sk*	Sk*	Sk*
		STEL 280 mg/m ³			
		Sk*			
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Acetonitrile	TWA: 40 ppm	TWA: 70 mg/m ³	TWA: 40 ppm	TWA: 40 ppm	TWA: 20 ppm
75-05-8	TWA: 70 mg/m ³	Sk*	TWA: 70 mg/m ³	TWA: 70 mg/m ³	TWA: 34 mg/m ³
		Ceiling: 100 mg/m ³	STEL: 80 ppm	Sk*	STEL: 40 ppm
			STEL: 140 mg/m ³		STEL: 68 mg/m ³
			Sk*		Sk*
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 ³	TWA: 17 mg/m ³	TWA: 17 mg/m ³	TWA: 70 mg/m ³	TWA: 70 mg/m ³
	Sk*	Sk*	Peak: 20 ppm	STEL: 60 ppm	STEL: 5 mg/m ³
			Peak: 34 mg/m ³	STEL: 105 mg/m ³	Sk*



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				· · · · · · · · · · · · · · · · · · ·			
				Sk*		Sk*	
Chemical name		Ireland	Italy MDLPS	Italy AIDII	La	atvia	Lithuania
Acetonitrile	TΝ	/A: 40 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA:	40 ppm	TWA: 40 ppm
75-05-8	TW	A: 70 mg/m ³	TWA: 35 mg/m ³	TWA: 34 mg/m ³	TWA:	70 mg/m ³	TWA: 70 mg/m ³
	STE	L: 120 ppm	Sk*	Sk*		Sk* Č	Sk*
	STEL	_: 310 mg/m ³					
		Sk*					
Chemical name	Lu	ixembourg	Malta	Netherlands	No	orway	Poland
Acetonitrile	TΝ	/A: 40 ppm	TWA: 40 ppm	TWA: 20 ppm	TWA:	30 ppm	TWA: 70 mg/m ³
75-05-8	TW	A: 70 mg/m ³	TWA: 70 mg/m ³	TWA: 34 mg/m ³	TWA:	50 mg/m ³	STEL: 140 mg/m ³
		Sk*	Sk*	STEL: 4.5 ppm	STEL	: 45 ppm	Sk*
				STEL: 5 mg/m ³	STEL:	75 mg/m ³	
				Sk*		Sk*	
Chemical name		Portugal	Romania	Slovakia	Slo	venia	Spain
Acetonitrile	TΝ	/A: 40 ppm	TWA: 40 ppm	TWA: 40 ppm	TWA:	40 ppm	TWA: 40 ppm
75-05-8	TW	A: 70 mg/m ³	TWA: 70 mg/m ³	TWA: 70 mg/m ³	TWA:	70 mg/m ³	TWA: 68 mg/m ³
		Sk*	STEL: 1 mg/m ³	Sk*		40 mg/m ³	Sk* Ŭ
			Sk*	Ceiling: 5 mg/m ³	STEL	: 80 ppm	
						Sk*	
Chemical name		SI	veden	Switzerland		Uni	ted Kingdom
Acetonitrile		NGV	: 30 ppm	TWA: 20 ppm		T۱	VA: 40 ppm
		50 mg/m ³	TWA: 34 mg/m	3	TΜ	/A: 68 mg/m ³	
Vägl		Vägledande	e KGV: 60 ppm	STEL: 40 ppm		ST	EL: 60 ppm
		Vägledande	KGV: 100 mg/m ³	STEL: 68 mg/m	1 ³	STE	L: 102 mg/m ³
			Sk*	Sk*			Sk*

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	
				work shift	



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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	Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Tight sealing safety goggles.
Hand protection	Wear protective butyl rubber gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. 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	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. 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	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	
Property	Values	
Melting point / freezing point	-45.7 °C	
Initial boiling point and boiling range	e81.6 °C	
Flammability	No data available	

Remarks • Method None known None known None known



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Flammability Limit in Air		None known
Upper flammability or explosive limits	17 Vol%	
Lower flammability or explosive limits	3 Vol% - 50 g/m³	
Flash point	2 °C	None known
Autoignition temperature	524 °C	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No data available	None known
Dynamic viscosity	0.35 mPa s	@ 25°C
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	-0.34	None known
Vapour pressure	94.51 - 98.64 hPa	@ 20°C
Relative density	0.7857	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapour density	1.42	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 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.



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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.

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. 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 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, of	chemical and toxicological characteristics
Symptoms	May cause redness and tearing of the eyes. Coughing and/ or wheezing.
Numerical measures of toxicity	

Acute toxicity



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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

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	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	<u>1</u>



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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

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)

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

12.4. Mobility in soil

Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment



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PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

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

 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 ERG Code 	UN1648 Acetonitrile mixture 3 II UN1648, Acetonitrile mixture, 3, II No None 3L
IMDG 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description	UN1648 Acetonitrile mixture 3 II UN1648, Acetonitrile mixture, 3, II, (2°C c.c.)

ΙΑΤΑ



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14.5 Marine pollutant Environmental hazards	Not applicable No
14.6 Special precautions for user Special Provisions EmS-No.	None F-E, S-D No information available
14.7 Maritime transport in bulk according to IMO instruments	No information available
<u>RID</u> 14.1 UN number or ID number	UN1648
14.1 UN proper shipping name	Acetonitrile mixture
14.3 Transport hazard class(es)	3
14.4 Packing group Description	II UN1648, Acetonitrile mixture, 3, II
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions Classification code	None F1
Classification code	FI
ADR	
14.1 UN number or ID number14.2 UN proper shipping name	UN1648 Acetonitrile mixture
14.3 Transport hazard class(es)	3
14.4 Packing group	
Description 14.5 Environmental hazards	UN1648, Acetonitrile mixture, 3, II, (D/E)
14.6 Special precautions for user	
Special Provisions	None
Classification code Tunnel restriction code	F1 (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		

Water hazard class (WGK)

obviously hazardous to water (WGK 2)



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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) 2024/590 Not applicable

International Inventories TSCA	LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.
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
KECI	Contact supplier for inventory compliance status



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PICCS	
AIIC	

Contact supplier for inventory compliance status 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 Chemicals Inventory

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 any hazard and/or precautionary statements referred to under Sections 2-15

H225 - Highly flammable liquid and vapour

- H302 Harmful if swallowed
- H312 Harmful in contact with skin

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

Legend

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



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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
Chronic aquatic toxicity	Calculation method
Acute 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) 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) U.S. 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

07-Jan-2025

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

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a



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guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

End of Safety Data Sheet