

Creation Date Oct-2013 Revision Date Oct-2018 **Revision Number 2**

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

1.1. Product identification

Product Description: Acetonitrile

Product Grade: HPLC, ER, SQ, GC HS

Cat No.: Q4400SP, Q1103HACS, Q21105, Q21107, Q2110C, Q4400P, Q44016, Q44017,

Q49105, Q49106

Synonyms AN; Methyl cyanide; Ethanenitrile

CAS-No 75-05-8 EC-No. 200-835-2 Molecular Formula C2 H3 N

Reach Registration Number 01-2119471307-38

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

Recommended Use Laboratory chemicals.

Sector of use SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

PC21 - Laboratory chemicals Product category

Process categories PROC15 - Use as a laboratory reagent

Environmental release category ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)

Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Thermo Fisher Scientific India Pvt. Ltd Company

403-404, B-wing, Delphi, Hiranandani Business Park,

Powai, Mumbai 400076, INDIA.

E-mail address laboratorysolutions@thermofisher.com

1.4. Emergency telephone number

India Toll Free: 18 00 22 22 30 Chemtrec US: (800)424-9300 Chemtrec EU: 001(202)483-7616

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

Physical hazards

Flammable liquids Category 2 (H225)

Health hazards

Category 4 (H302) Acute oral toxicity Category 4 (H312) Acute dermal toxicity Category 4 (H332) Acute Inhalation Toxicity - Vapors Serious Eye Damage/Eye Irritation Category 2 (H319)

Environmental hazards
Based on available data, the classification criteria are not met

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2.2. Label elements



Signal Word

Danger

Hazard Statements

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

Precautionary Statements

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

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P240 - Ground/Bond container and receiving equipment

2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB) No information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Component	CAS-No	EC-No.	Weight %	CLP Classification - Regulation (EC) No 1272/2008
Acetonitrile	75-05-8	EEC No. 200-835-2	>95	Flam. Liq. 2 (H225) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Eye Irrit. 2 (H319) Acute Tox. 4 (H332)

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Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if

victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate

medical attention is required.

Protection of First-aiders Remove all sources of ignition. Use personal protective equipment. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Ensure that medical personnel are aware of the material(s) involved, take

precautions to protect themselves and prevent spread of contamination.

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

Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Metabolism may release cyanide, which may result in headache, dizziness, weakness, collapse, unconsciousness, and possible death: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

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

Notes to PhysicianTreat symptomatically. The effects may be delayed therefore medical observation is

essential. Effects may be delayed 7 to 10 hours. May be metabolized to cyanide which in

turn acts by inhibiting cytochrome oxidase impairing cellular respiration.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Water spray. CO₂, dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire with water spray.

Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

Hazardous Combustion Products

Hydrogen cyanide (hydrocyanic acid), Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2).

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Take precautionary measures against static discharges. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment.

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6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information.

6.3. Methods and material for containment and cleaning up

Remove all sources of ignition. Take precautionary measures against static discharges. Provide adequate ventilation. Use spark-proof tools and explosion-proof equipment. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Prevent product from entering drains.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

Hygiene Measures

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Flammables area.

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **EU** - Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. **UK** - EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended). Updated by September 2006 official press release and October 2007 Supplement. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority.

Component	European Union	The United Kingdom	France	Belgium	Spain
Acetonitrile	TWA: 40 ppm 8 hr	STEL: 60 ppm 15 min	TWA / VME: 40 ppm (8	TWA: 20 ppm 8 uren	TWA / VLA-ED: 40 ppm
	TWA: 70 mg/m ³ 8 hr	STEL: 102 mg/m ³ 15	heures). restrictive limit	TWA: 34 mg/m ³ 8 uren	(8 horas)
	Skin	min STEL: 15 mg/m ³ 15	TWA / VME: 70 mg/m ³	Huid	TWA / VLA-ED: 68
		min	(8 heures). restrictive		mg/m³ (8 horas)
		TWA: 40 ppm 8 hr	limit TWA / VME: 5		Piel
		TWA: 68 mg/m ³ 8 hr	mg/m³ (8 heures).		
		TWA: 5 mg/m ³ 8 hr	Peau		
		Skin			

Component	Italy	Germany	Portugal	The Netherlands	Finland
Acetonitrile	TWA: 20 ppm 8 ore.	TWA: 20 ppm (8	TWA: 40 ppm 8 horas	TWA: 34 mg/m ³ 8 uren	TWA: 20 ppm 8 tunteina
	Media Ponderata nel	Stunden). AGW -	TWA: 70 mg/m ³ 8 horas	-	TWA: 34 mg/m ³ 8
	Tempo	exposure factor 2	Pele		tunteina
	TWA: 35 mg/m ³ 8 ore.	TWA: 34 mg/m ³ (8			STEL: 40 ppm 15
	Media Ponderata nel	Stunden). AGW -			minuutteina
	Tempo	exposure factor 2			STEL: 68 mg/m ³ 15

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	Pelle TWA: 20 ppm (8 Stunden). MAK TWA: 34 mg/m³ (8 Stunden). MAK TWA: 2 mg/m³ (8 Stunden). MAK Höhepunkt: 40 ppm Höhepunkt: 68 mg/m³ Höhepunkt: 2 mg/m³ Haut			minuutteina Iho
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Component	Austria	Denmark	Switzerland	Poland	Norway
Acetonitrile	Haut MAK-KZW: 160 ppm 15 Minuten MAK-KZW: 280 mg/m³ 15 Minuten MAK-TMW: 40 ppm 8 Stunden MAK-TMW: 70 mg/m³ 8 Stunden	Hud	Haut/Peau STEL: 40 ppm 15 Minuten STEL: 68 mg/m³ 15 Minuten TWA: 20 ppm 8 Stunden TWA: 34 mg/m³ 8 Stunden	STEL: 140 mg/m³ 15 minutach TWA: 70 mg/m³ 8 godzinach	TWA: 30 ppm 8 timer TWA: 50 mg/m³ 8 timer TWA: 5 mg/m³ 8 timer STEL: 30 ppm 15 minutter. STEL: 50 mg/m³ 15 minutter. Hud

Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
Acetonitrile	TWA: 40 ppm TWA: 70 mg/m³ Skin notation	kože TWA-GVI: 40 ppm 8 satima. TWA-GVI: 68 mg/m³ 8 satima. STEL-KGVI: 60 ppm 15 minutama. STEL-KGVI: 102 mg/m³ 15 minutama.	J	TWA: 40 ppm TWA: 70 mg/m³	TWA: 70 mg/m³ 8 hodinách. Potential for cutaneous absorption Ceiling: 100 mg/m³

Component	Estonia	Gibraltar	Greece	Hungary	Iceland
Acetonitrile	Nahk TWA: 40 ppm 8 tundides. TWA: 70 mg/m³ 8 tundides. STEL: 60 ppm 15 minutites. STEL: 100 mg/m³ 15 minutites.	Skin notation TWA: 40 ppm 8 hr TWA: 70 mg/m³ 8 hr	STEL: 60 ppm STEL: 105 mg/m³ TWA: 40 ppm TWA: 70 mg/m³	TWA: 70 mg/m³ 8 órában. AK lehetséges borön keresztüli felszívódás	TWA: 40 ppm 8 klukkustundum. TWA: 70 mg/m³ 8 klukkustundum. Skin notation Ceiling: 80 ppm Ceiling: 140 mg/m³

Component	Latvia	Lithuania	Luxembourg	Malta	Romania
Acetonitrile	skin - potential for	TWA: 40 ppm IPRD		possibility of significant	Skin notation TWA:
	cutaneous exposure	_	,	uptake through the skin	
	TWA: 40 ppm	Oda	TWA: 40 ppm 8	TWA: 40 ppm	70 mg/m ³ 8 ore
	TWA: 70 mg/m ³		Stunden	TWA: 70 mg/m ³	_
			TWA: 70 mg/m ³ 8		
			Stunden		

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
Acetonitrile	MAC: 10 mg/m ³	Potential for cutaneous	TWA: 40 ppm 8 urah	STV: 60 ppm 15 minuter	Deri
		absorption	TWA: 70 mg/m ³ 8 urah	STV: 100 mg/m ³ 15	TWA: 40 ppm 8 saat
		TWA: 40 ppm	Koža	minuter	TWA: 70 mg/m³ 8 saat
		TWA: 70 mg/m ³		LLV: 30 ppm 8 timmar.	
				LLV: 50 mg/m ³ 8	
				timmar.	

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

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Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS70 General methods for sampling airborne gases and vapours

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography

MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

Derived No Effect Level (DNEL) See table for values

Route of exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral Dermal				22.2 malka hulday
Dermai				32.2 mg/kg bw/day
Inhalation	40.6 ppm	40.6 ppm	40.6 ppm	40.6 ppm
	(68 mg/m³)	(68 mg/m³)	(68 mg/m³)	(68 mg/m³)

Predicted No Effect Concentration See values below.

(PNEC)

Fresh water 10 mg/l
Fresh water sediment 7.54 mg/kg dw
Marine water 1 mg/l
Water Intermittent 10 mg/l
Microorganisms in sewage 32 mg/l

treatment

Soil (Agriculture) 2.41 mg/kg dw

8.2. Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Goggles (European standard - EN 166)

Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Butyl rubber	> 480 minutes	0.35 mm	EN 374	As tested under EN374-3 Determination of
			Level 6	Resistance to Permeation by Chemicals
Neoprene gloves	< 60 minutes	0.45 mm		·

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

To protect the wearer, respiratory protective equipment must be the correct fit and be used

and maintained properly

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

Recommended Filter type: low boiling organic solvent Type AX Brown conforming to

EN371

Small scale/Laboratory use Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure

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limits are exceeded or if irritation or other symptoms are experienced.

Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN

141

Environmental exposure controls No information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Colorless Physical State Liquid

OdoraromaticOdor Threshold170 ppm

pH No information available
Melting Point/Range -46 °C / -50.8 °F
Softening Point No data available

Boiling Point/Range 81 - 82 °C / 177.8 - 179.6 °F @ 760 mmHg

Flash Point 12.8 °C / 55 °F Method - No information available

Evaporation Rate 5.79 (Butyl Acetate = 1.0)

Flammability (solid,gas) Not applicable Liquid

Explosion Limits

Lower 3 vol %
Upper 16 vol %

 Vapor Pressure
 97 mbar @ 20 °C

 Vapor Density
 1.42
 (Air = 1.0)

Specific Gravity / Density 0.781

Bulk Density Not applicable Liquid

Water Solubility Miscible

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow Acetonitrile -0.34

Autoignition Temperature525 °C / 977 °FDecomposition TemperatureNo data availableViscosity0.36 °C at 20 °C

Explosive Properties Not explosive Vapors may form explosive mixtures with air

Oxidizing Properties Not oxidising

9.2. Other information

Molecular FormulaC2 H3 NMolecular Weight41.05

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions No information available.

10.4. Conditions to avoid

Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

Exposure to moisture.

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10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Reducing agents. Bases.

10.6. Hazardous decomposition products

Hydrogen cyanide (hydrocyanic acid). Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

(a) acute toxicity:

Oral Category 4
Dermal Category 4
Inhalation Category 4

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acetonitrile	ATE = 617 mg/kg 450-787 mg/kg (Rat) 2460 mg/kg(Rat)	> 2000 mg/kg(Rabbit)	ATE = 3587 ppm 7551 ppm (Rat)8 h

(b) skin corrosion/irritation; Based on available data, the classification criteria are not met

(c) serious eye damage/irritation; Category 2

(d) respiratory or skin sensitization;

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

(e) germ cell mutagenicity; Based on available data, the classification criteria are not met

Mutagenic effects have occurred in experimental animals
Based on available data, the classification criteria are not met

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; Based on available data, the classification criteria are not met

(h) STOT-single exposure; Based on available data, the classification criteria are not met

(i) STOT-repeated exposure; Based on available data, the classification criteria are not met

Target Organs None known.

(j) aspiration hazard;

(f) carcinogenicity;

Symptoms / effects,both acute and

delayed

Based on available data, the classification criteria are not met

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Metabolism may release cyanide, which may result in headache, dizziness, weakness, collapse, unconsciousness, and possible death: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Acetonitrile	LC50: = 1650 mg/L, 96h	EC50: = 5838 mg/L, 18h		EC50 = 28000 mg/L 48

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static (Poecilia reticulata) LC50: = 1850 mg/L, 96h static (Lepomis macrochirus) LC50: = 1000 mg/L, 96h static (Pimephales promelas) LC50: 1600 - 1690 mg/L, 96h flow-through (Pimephales promelas)		h EC50 = 73 mg/L 24 h EC50 = 7500 mg/L 15 h	
		l l	

12.2. Persistence and degradability

Persistence is unlikely, based on information available. **Persistence**

12.3. Bioaccumulative potential Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)
Acetonitrile	-0.34	No data available

12.4. Mobility in soil The product contains volatile organic compounds (VOC) which will evaporate easily from all

surfaces Will likely be mobile in the environment due to its volatility. Disperses rapidly in

12.5. Results of PBT and vPvB

assessment

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).

12.6. Other adverse effects

Endocrine Disruptor Information Persistent Organic Pollutant

This product does not contain any known or suspected endocrine disruptors

This product does not contain any known or suspected substance **Ozone Depletion Potential** This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused

Products

Waste is classified as hazardous. Dispose of in accordance with the European Directives

on waste and hazardous waste. Dispose of in accordance with local regulations.

Dispose of this container to hazardous or special waste collection point. Empty containers **Contaminated Packaging**

retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and

empty container away from heat and sources of ignition.

European Waste Catalogue (EWC)

According to the European Waste Catalogue, Waste Codes are not product specific, but

application specific.

Other Information

Waste codes should be assigned by the user based on the application for which the product

was used. Do not dispose of waste into sewer. Can be incinerated, when in compliance

with local regulations.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

14.1. UN number UN1648

14.2. UN proper shipping name **ACETONITRILE**

14.3. Transport hazard class(es) 3 14.4. Packing group П

<u>ADR</u>

14.1. UN number UN1648

14.2. UN proper shipping name **ACETONITRILE**

14.3. Transport hazard class(es)

Revision Date Oct-2018 **Acetonitrile**

14.4. Packing group Π

IATA

14.1. UN number UN1648

14.2. UN proper shipping name **ACETONITRILE**

14.3. Transport hazard class(es) 14.4. Packing group П

14.5. Environmental hazards No hazards identified

14.6. Special precautions for user No special precautions required

14.7. Transport in bulk according to Not applicable, packaged goods

Annex II of MARPOL73/78 and the

IBC Code

SECTION 15: REGULATORY INFORMATION

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

X = listed International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Acetonitrile	200-835-2	-		Х	Х	-	Х	Х	Χ	Χ	Х

National Regulations

Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class
Acetonitrile	WGK 2	

Component	France - INRS (Tables of occupational diseases)
Acetonitrile	Tableaux des maladies professionnelles (TMP) - RG 84

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

Take note of Dir 94/33/EC on the protection of young people at work

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

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has been conducted by the manufacturer/importer

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H225 - Highly flammable liquid and vapor

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

CAS - Chemical Abstracts Service

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

Substances List

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

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WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration PBT - Persistent. Bioaccumulative. Toxic

ADR - European Agreement Concerning the International Carriage of

Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

Key literature references and sources for data

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Ships ATE - Acute Toxicity Estimate VOC - Volatile Organic Compounds

TWA - Time Weighted Average

EC50 - Effective Concentration 50%

LD50 - Lethal Dose 50%

Transport Association

IARC - International Agency for Research on Cancer

ICAO/IATA - International Civil Aviation Organization/International Air

MARPOL - International Convention for the Prevention of Pollution from

PNEC - Predicted No Effect Concentration

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts. Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and

First aid for chemical exposure, including the use of eye wash and safety showers.

Chemical incident response training.

Creation Date Oct-2013 Next Revision Date Oct-2023

SDS section 1 updated and update of Format. **Revision Summary**

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

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet