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

· **1.1 Product identifier**

· **Trade name: Acetonitrile**
· **Chemical Identification:** Cyanomethane

· **Article number:** 0120
· **CAS Number:**
75-05-8
· **EC number:**
200-835-2
· **Index number:**
608-001-00-3
· **Registration number** 01-2119471307-38-XXXX
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
Only for the use of professionals users
· **Life cycle stages**
M Manufacture
F Formulation or re-packing
IS Use at industrial Sites
PW Widespread use by professional workers
· **Sector of Use**
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU9 Manufacture of fine chemicals
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU24 Scientific research and development
SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
· **Product category**
PC19 Intermediate
PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents
PC21 Laboratory chemicals
PC35 Washing and cleaning products (including solvent based products)
PC40 Extraction agents
· **Process category**
PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC4 Chemical production where opportunity for exposure arises
PROC5 Mixing or blending in batch processes
PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
PROC15 Use as laboratory reagent
· **Environmental release category**
ERC1 Manufacture of the substance
ERC2 Formulation into mixture
ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC6a Use of intermediate
ERC7 Use of functional fluid at industrial site

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· **Application of the substance / the mixture**
Chemical for research, development, manufacturing, laboratory chemical for analysis.

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Biosolve Chimie
20 Rue Roger Husson, 57260 Dieuze, France
Tel: +33 3 878 675 80/81/82/83/84/85
Email: info@biosolvechimie.com

Biosolve B.V.
Leenderweg 78, 5555 CE Valkenswaard, the Netherlands.
Tel: +31-(0)40-2071300
Fax:+31-(0)40-2048537
Email: info@biosolve-chemicals.com

· **Further information obtainable from:** Product safety department.
· **1.4 Emergency telephone number:**
Contact list of appointed bodies for information relating to emergency health response, according to Art. 45(1) Reg. (EC) No 1272/2008.
See below section 16 or at https://poisoncentres.echa.europa.eu/home.
Help desk: http://echa.europa.eu/web/guest/support/helpdesks/national-helpdesks/list-of-national-helpdesks).
Data from: ECHA - EUROPEAN CHEMICALS AGENCY
For more information see section 16.

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H312 Harmful in contact with skin.
Acute Tox. 4 H332 Harmful if inhaled.
Eye Irrit. 2 H319 Causes serious eye irritation.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.

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· ***Hazard pictograms***

GHS02 GHS07

· ***Signal word*** *Danger*
· ***Hazard statements***
H225 *Highly flammable liquid and vapour.*
H302+H312+H332 *Harmful if swallowed, in contact with skin or if inhaled.*
H319 *Causes serious eye irritation.*
· ***Precautionary statements***
P210 *Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
P241 *Use explosion-proof [electrical/ventilating/lighting] equipment.*
P303+P361+P353 *IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].*
P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*
· ***2.3 Other hazards***
The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

*
SECTION 3: Composition/information on ingredients

· ***3.1 Substances***
· ***CAS No. Description***
CAS: 75-05-8 Acetonitrile
· ***Identification number(s)***
· ***EC number:*** *200-835-2*
· ***Index number:*** *608-001-00-3*

*
SECTION 4: First aid measures

· ***4.1 Description of first aid measures***
· ***General information:***
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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· ***After inhalation:***
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
· ***After skin contact:*** *Generally the product does not irritate the skin.*
· ***After eye contact:***
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· ***After swallowing:*** *Call for a doctor immediately.*
· ***4.2 Most important symptoms and effects, both acute and delayed***
No further relevant information available.
· ***4.3 Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

SECTION 5: Firefighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents:***
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· ***5.2 Special hazards arising from the substance or mixture*** *No further relevant information available.*
· ***5.3 Advice for firefighters***
· ***Protective equipment:*** *Mouth respiratory protective device.*

*
SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures***
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.
Wear protective equipment. Keep unprotected persons away.
· ***6.2 Environmental precautions:***
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· ***6.3 Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
· ***6.4 Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

*
SECTION 7: Handling and storage

· ***7.1 Precautions for safe handling*** *Ensure good ventilation/exhaustion at the workplace.*

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· ***Information about fire - and explosion protection:***
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· ***7.2 Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:*** *Store in a cool location.*
· ***Information about storage in one common storage facility:*** *Not required.*
· ***Further information about storage conditions:***
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· ***7.3 Specific end use(s)*** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

· ***8.1 Control parameters***

· **Ingredients with limit values that require monitoring at the workplace:**	
CAS: 75-05-8 Acetonitrile	
IOELV	Long-term value: 70 mg/m³, 40 ppm Skin

· ***DNELs***
(75-05-8)
Workers Inhalation Acute local effects, Acute systemic effects 68 mg/m3
Workers Skin contact Long-term systemic effects 32.2mg/kg BW/d
Workers Inhalation Long-term local effects, Long-term systemic effects 68 mg/m3
Consumers Inhalation Acute local effects 220 mg/m3
Consumers Inhalation Acute systemic effects 22 mg/m3
Consumers Inhalation Long-term systemic effects 4.8 mg/m3
· ***PNECs***
(75-05-8)
Water 10 mg/l
Soil 2.41 mg/kg
Marine water 1 mg/l
Fresh water 10 mg/l
Fresh water sediment 7.53 mg/kg
Onsite sewage treatment plant 32 mg/l
· ***Additional information:*** *The lists valid during the making were used as basis.*

· ***8.2 Exposure controls***
· ***Appropriate engineering controls*** *No further data; see section 7.*
· ***Individual protection measures, such as personal protective equipment***
· ***General protective and hygienic measures:***
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

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· **Respiratory protection:**
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Hand protection**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Butyl rubber, BR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**
Full contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 480 min

Splash contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 480 min
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Tightly sealed goggles

· **Body protection:** Protective work clothing

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· ***Environmental exposure controls***
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

*
SECTION 9: Physical and chemical properties

· ***9.1 Information on basic physical and chemical properties***	
· ***General Information***	
· ***Physical state***	*Fluid*
· ***Colour:***	*Colourless*
· ***Odour:***	*Ether-like*
· ***Odour threshold:***	*39,8 ppm*
· ***Melting point/freezing point:***	*-46 °C*
· ***Boiling point or initial boiling point and boiling range***	*81 °C*
· ***Flammability***	*3.0 % (lower limit) and 16.0 % (upper limit) at room temperature.* *Highly flammable.*
· ***Lower and upper explosion limit***	
· ***Lower:***	*4.4 Vol %*
· ***Upper:***	*16 Vol %*
· ***Flash point:***	*2 °C (closed cup)*
· ***Auto-ignition temperature:***	*525 °C*
· ***Decomposition temperature:***	*Distillable in an undecomposed state at normal pressure.*
· ***pH***	*Neutral*
· ***Viscosity:***	
· ***Dynamic at 20 °C:***	*0.39 mPas*
· ***Solubility***	
· ***water:***	*Fully miscible.*
· ***Partition coefficient n-octanol/water (log value)***	*-0.54061*
· ***Vapour pressure at 20 °C:***	*97 hPa*
· ***Vapour pressure at 50 °C:***	*330 hPa*
· ***Density and/or relative density***	
· ***Density at 20 °C:***	*0.78 g/cm³*
· ***Relative density***	*0.79 at 15 deg C* *0.78 at 20 deg C* *0.79 at 20 deg C* *0.71 at 30 deg C*
· ***Bulk density:***	*1 kg/m³*
· ***Vapour density***	*1.42 - (Air = 1.0)*
· ***9.2 Other information***	
· ***Appearance:***	
· ***Form:***	*Fluid*

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· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	No data available
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· **Molecular weight**	41.05 g/mol
· **Change in condition**	
· **Softening point/range**	
· **Oxidising properties**	Non oxidizer.
· **Evaporation rate**	No data available

· **Information with regard to physical hazard classes**	
· **Explosives**	Void
· **Flammable gases**	Void
· **Aerosols**	Void
· **Oxidising gases**	Void
· **Gases under pressure**	Void
· **Flammable liquids**	Highly flammable liquid and vapour.
· **Flammable solids**	Void
· **Self-reactive substances and mixtures**	Void
· **Pyrophoric liquids**	Void
· **Pyrophoric solids**	Void
· **Self-heating substances and mixtures**	Void
· **Substances and mixtures, which emit flammable gases in contact with water**	Void
· **Oxidising liquids**	Void
· **Oxidising solids**	Void
· **Organic peroxides**	Void
· **Corrosive to metals**	Void
· **Desensitised explosives**	Void
· **Molecular Weight**	41.05 gr/mole
· **Molecular Formula**	C2H3N

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions** No dangerous reactions known.
· **10.4 Conditions to avoid** No further relevant information available.
· **10.5 Incompatible materials:** No further relevant information available.
· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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SECTION 11: Toxicological information

· ***11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008***
· ***Acute toxicity*** *Harmful if swallowed, in contact with skin or if inhaled.*

· ***LD/LC50 values relevant for classification:***		
Oral	*LD50*	*2,730 mg/kg (rat)*
Dermal	*LD50*	*1,250 mg/kg (rabbit)*
Inhalative	*LC50/4 h*	*11 mg/l (ATE)*

· ***Skin corrosion/irritation*** *Based on available data, the classification criteria are not met.*
· ***Serious eye damage/irritation*** *Causes serious eye irritation.*
· ***Respiratory or skin sensitisation*** *Based on available data, the classification criteria are not met.*
· ***Germ cell mutagenicity*** *Based on available data, the classification criteria are not met.*
· ***Carcinogenicity*** *Based on available data, the classification criteria are not met.*
· ***Reproductive toxicity*** *Based on available data, the classification criteria are not met.*
· ***STOT-single exposure*** *Based on available data, the classification criteria are not met.*
· ***STOT-repeated exposure*** *Based on available data, the classification criteria are not met.*
· ***Aspiration hazard*** *Based on available data, the classification criteria are not met.*
· ***11.2 Information on other hazards***
· ***Endocrine disrupting properties*** *Substance is not listed.*

*
SECTION 12: Ecological information

· ***12.1 Toxicity***
· ***Aquatic toxicity:*** *No further relevant information available.*
· ***12.2 Persistence and degradability*** *No further relevant information available.*
· ***12.3 Bioaccumulative potential*** *No further relevant information available.*
· ***12.4 Mobility in soil*** *No further relevant information available.*
· ***12.5 Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*
· ***12.6 Endocrine disrupting properties***
The product does not contain substances with endocrine disrupting properties.
· ***12.7 Other adverse effects***
· ***Additional ecological information:***
· ***General notes:***
Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

· ***13.1 Waste treatment methods***
· ***Recommendation***
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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· **European waste catalogue**	
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP6	Acute Toxicity

· ***Uncleaned packaging:***
· ***Recommendation:*** *Disposal must be made according to official regulations.*
· ***Recommended cleansing agents:*** *Water, if necessary together with cleansing agents.*

*
SECTION 14: Transport information

· **14.1 UN number or ID number**
· **ADR, IMDG, IATA** UN1648

· **14.2 UN proper shipping name**
· **ADR** UN1648 ACETONITRILE
· **IMDG, IATA** ACETONITRILE

· **14.3 Transport hazard class(es)**

· **ADR**

· **Class** 3 (F1) Flammable liquids.
· **Label** 3

· **IMDG, IATA**

· **Class** 3 Flammable liquids.
· **Label** 3

· **14.4 Packing group**
· **ADR, IMDG, IATA** II

· **14.5 Environmental hazards:**
· **Marine pollutant:** No

· **14.6 Special precautions for user** Warning: Flammable liquids.
· **Hazard identification number (Kemler code):** 33
· **EMS Number:** F-E,S-D
· **Stowage Category** B

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· **Stowage Code**	SW2 Clear of living quarters.
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **Transport category**	2
· **Tunnel restriction code**	D/E
· **IMDG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** Substance is not listed.
· **Seveso category** P5c FLAMMABLE LIQUIDS
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40
· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
Substance is not listed.
· **REGULATION (EU) 2019/1148**
· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
Substance is not listed.
· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS** Substance is not listed.
· **Regulation (EC) No 273/2004 on drug precursors** Substance is not listed.
· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
Substance is not listed.
· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· ***Contact:***
Austria German Vergiftungsinformationszentrale 01 406 43 43 http://www.goeg.at/de/VIZ
Belgium French Centre antipoison 070 245 245 http://www.centreantipoisons.be
Dutch Antigif centrum 070 245 245 http://www.antigifcentrum.be
German Giftinformationszentrum 070 245 245 http://www.poisoncentre.be
Bulgaria Bulgarian Токсикологични центрове 02 9154 411 https://pirogov.eu/bg*
Croatia Croatian Centar za kontrolu otrovanja +385 1 2348 342 https://www.imi.hr/en/jedinica/poison-control-centre*
Czech Rep Czech Toxikologické informační středisko +420 224 91 92 93; +420 224 91 54 02 http://www.tis-cz.cz
Denmark Danish Giftlinien +45 8212 1212 https://www.bispebjerghospital.dk/giftlinien
Estonia Estonian Mürgistusteabekeskus 16662; +372 7943 794 https://www.16662.ee
Finland Finnish Myrkytystietokeskus 0800 147 111; +358 9 471 977 http://www.hus.fi/sairaanhoito/sairaanhoitopalvelut/myrkytystietokeskus/Sivut/default.aspx
France French Angers +33 2 41 48 21 21 http://www.centres-antipoison.net/angers/index.html
Bordeaux +33 5 56 96 40 80 http://www.centres-antipoison.net/bordeaux/index.html
Lille +33 0800 59 59 59 http://www.centres-antipoison.net/lille/index.html
Lyon +33 4 72 11 69 11 http://www.centres-antipoison.net/lyon/index.html
Marseille +33 4 91 75 25 25 http://www.centres-antipoison.net/marseille/index.html
Nancy +33 3 83 22 50 50 http://www.centres-antipoison.net/nancy/index.html
Paris +33 1 40 05 48 48 http://www.centres-antipoison.net/paris/index.html
Strasbourg +33 3 88 37 37 37 http://www.centres-antipoison.net/strasbourg/index.html
Toulouse +33 5 61 77 74 47 http://www.centres-antipoison.net/toulouse/index.html
Germany German Berlin +49 30 19240 https://giftnotruf.charite.de
Bonn +49 228 19240 http://www.gizbonn.de/index.php?id=272
Erfurt +49 361 730730 https://www.ggiz-erfurt.de/home.html
Freiburg +49 761 19240 https://www.uniklinik-freiburg.de/giftberatung.html
Göttingen +49 551 19240 https://www.giz-nord.de/cms/index.php
Homburg/Saar +49 6841 19240 http://www.uniklinikumsaarland.de/de/einrichtungen/kliniken_institute/kinder_und_jugendmedizin/informations_und_behandlungszentrum_fuer_vergiftungen_des_saarlandes
Mainz +49 6131 19240 http://www.giftinfo.uni-mainz.de/index.php?id=24807
München +49 89 19240 http://www.toxinfo.med.tum.de
Greece Greek κέντρο δηλητηριάσεων +30 213 200 9000 http://www.aglaiakyriakou.gr/; http://0317.syzefxis.gov.gr
Hungary Hungarian Egészségügyi Toxikológiai Tájékoztató Szolgálat +36 6 80 20 11 99; +36 06 1 476 6464 http://www.okbi.hu/page.php?trid=1&dz=103
Italy Italian Bergamo +39 800 88 33 00 http://www.asst-pg23.it/section/259/Tossicologia_-_Centro_antiveleni
Firenze +39 55 794 78 19 http://www.antiveleni.altervista.org
Milano +39 2 661 01 029 http://www.centroantiveleni.org
Pavia +39 382 244 44 http://www-3.unipv.it/reumatologia-tossicologia/cav
Napoli +39 81 747 28 70
Foggia +39 881 732 326

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Roma +39 6 685 93 726 / +39 6 499 78 000 / +39 6 305 43 43http://www.corso-primo-soccorso-roma.it/centri□antiveleno-lazio.html
Ireland English Poisons information Centre of Ireland +353 1 809 21 66 http://www.poisons.ie/Public
Latvia Latvian Saindēšanās informācijas centri +371 670 00 610 https://www.aslimnica.lv/lv*
Russian Латвия +371 67000610 https://www.aslimnica.lv/lv
Lithuania Lithuanian Apsinuodijimų informacijos biuras + 370 5 236 20 52 http://www.apsinuodijau.lt
Luxembourg German Giftinformationszentrum +49 800 255 00 http://www.poisoncentre.be
French Centre antipoison +352 800 255 00 http://www.centreantipoisons.be
Netherlands Dutch 31 (0)88 755 8 https://www.productnotificatie.nl
Norway Norwegian Giftinformasjonen +47 22 59 13 00 https://helsenorge.no/Giftinformasjon
Poland Polish Kraków +48 12 411 99 99 http://www.oit.cm.uj.edu.pl
Gdansk +48 58 682 04 04 http://www.pctox.pl/news.php
Poznań +48 61 847 69 46 http://www.raszeja.poznan.pl/oddzialy/oddzial□toksykologiczny
Warszawa +48 607 218 174 okzit@burdpi.pol.pl
Portugal Portuguese Centro de Informação Antivenenos +351 808 250 143 http://www.inem.pt
Romania Romanian CNMRMC +40 213 183 606 infotox@insp.gov.ro
Spitalul Clinic de Urgenta Bucuresti +40 215 992 300 int. 291 spital@urgentafloreasca.ro
Spitalul Clinic Judetean de Urgenta Targu Mures +40 265.212.111 secretariat@spitjudms.ro
Russia Russian Горячая линия Министерства здравоохранения +7 495 628 4453; +7 495 627 2944 http://rospotrebnadzor.ru
Serbia Serbian Nacionalni centar za kontrolu trovanja +381 11 3608 440 http://www.vma.mod.gov.rs/sr-lat/specijalnosti/centri/nacionalni-centar-za-kontrolu-trovanja
Slovak Rep Slovak Národné toxikologické informačné centrum +421 2 5477 4166 http://www.ntic.sk
Spain Spanish Servicio de Información Toxicológica +34 91 562 04 20 https://www.administracionde justicia.gob.es/paj/pub□lico/ciudadano/informacion_institucional/organismos/instituto_nacional_de_toxicologia_y_ciencias_fo□renses/servicios/info_toxicologica/que_es_sit/!ut/p/c5/04_SB8K8xLLM9MSSzPy8xBz9CP0os3g_A1cjCyd□DRwMDUwNLA08nwzAvM0czA_8gM6B8pFm8mae□rqWdQsImJcaiLiYGncViYa4CHr4GBiQExug1wAEd□CusNBrsWpwsLUACKPy3WuRvjlg83wy5sQ0G8C□tR-P__w88nNT9QtyQyMMMj0zA9IVFQHY18l4/dl3/d3/L2dJQSEvUUt3QS9ZQnZ3LzZfTjBFMjhCMUEwMDUwOT□BJQjFWSjZBNjBPTjA!/?itemId=45381
Sweden Swedish Giftinformationscentralen +46 10 456 6700 https://giftinformation.se
Switzerland German Giftinformationszentrum 145 http://toxinfo.ch
French Centre antipoison 145 http://toxinfo.ch
Italian Centro Antiveleni 145 http://toxinfo.ch
United Kingdom English NHS Helpline 111 NHS Helpline - England and Wales: http://www.nhs.uk/NHSEngland/AboutNHSservices/Emergencyandurgentcareservices/Pages/NHS-111.aspx

· ***Date of previous version:*** *19.10.2022*
· ***Version number of previous version:*** *6*
· ***Abbreviations and acronyms:***
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)

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Trade name: Acetonitrile

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PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
· **** Data compared to the previous version altered.***

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Annex: Exposure scenario

· ***Short title of the exposure scenario***
· ***Sector of Use***
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU9 Manufacture of fine chemicals
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU24 Scientific research and development
SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
· ***Product category***
PC19 Intermediate
PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents
PC21 Laboratory chemicals
PC35 Washing and cleaning products (including solvent based products)
PC40 Extraction agents
· ***Process category***
PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC4 Chemical production where opportunity for exposure arises
PROC5 Mixing or blending in batch processes
PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
PROC15 Use as laboratory reagent
· ***Environmental release category***
ERC1 Manufacture of the substance
ERC2 Formulation into mixture
ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC6a Use of intermediate
ERC7 Use of functional fluid at industrial site
· ***Notes*** *The product is intended for professional use.*
· ***Description of the activities / processes covered in the Exposure Scenario***
75-05-8
1. Industrial use
Main User Groups : SU 3
Sectors of end-use : SU 3, SU9
Chemical product category : PC19, PC20, PC35, PC40
Process categories : PROC1, PROC2, PROC3, PROC4
Environmental Release Categories : ERC1, ERC2, ERC4, ERC6a, ERC7

2. Used as laboratory reagent
Main User Groups : SU 22
Sectors of end-use : SU 3, SU 22, SU24
Chemical product category : PC21, PC40
Process categories : PROC3, PROC15

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Environmental Release Categories : ERC4, ERC6a, ERC7

3. Formulation of preparations
Main User Groups : SU 3
Sectors of end-use : SU 10
Chemical product category : PC21, PC40
Process categories : PROC3, PROC5, PROC8b, PROC9
Environmental Release Categories : ERC2

4. Industrial use of processing aids in processes and products, not becoming part of articles
Main User Groups : SU 3
Sectors of end-use : SU 3, SU9
Chemical product category : PC20, PC35, PC40
Process categories : PROC1, PROC2, PROC3, PROC4
Environmental Release Categories : ERC4, ERC6b, ERC7:
· ***Conditions of use***
· ***Duration and frequency*** *5 workdays/week.*
· ***Worker***
Application duration : > 4 h
Frequency of use : 220 days/year
· ***Environment***
Indoor use
Do not allow contact to soil, surface water and ground water.
· ***Physical parameters*** *See section 9 to the Safety Data Sheet.*
· ***Physical state*** *Fluid*
· ***Concentration of the substance in the mixture***
Raw material.
Covers the percentage of the substance in the product up to 100 %.
· ***Used amount per time or activity***
According to directions for use.
Covers the percentage of the substance in the product up to 100 %
· ***Other operational conditions*** *Observe the general safety regulations when handling chemicals.*
· ***Other operational conditions affecting environmental exposure***
Observe section 6 of the Safety Data Sheet (Accidental release measures).
· ***Other operational conditions affecting worker exposure***
Avoid contact with eyes.
Avoid contact with the skin.
Do not breathe gas/vapour/aerosol.
Take precautionary measures against static discharge.
Keep away from sources of ignition - No smoking.
· ***Risk management measures***
· ***Worker protection*** *Observe section 7.1 and 8.1-8.2 of the Safety Data Sheet*
· ***Organisational protective measures***
Avoid contact with drinking water and / or food during application.
Ensure that activities are executed by specialists or authorised personnel only.

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Ensure that the working area is organised, well lit and ventilated, with enough space to handle spilled product.
Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.
Consider section 4 of the Safety Data Sheet (First aid measures).

· **Technical protective measures**
Provide explosion-proof electrical equipment.
Ensure that suitable extractors are available on processing machines

· **Personal protective measures**
Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
Avoid contact with the eyes.
Tightly sealed goggles
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Environmental protection measures**
· **Air** Exhaust air is introduced into the gas scrubber.
· **Water** Do not allow to reach ground water, water bodies or sewage system.
· **Soil** Avoid contact with soil and / or ground water during the application.
· **Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.
· **Disposal measures**
Disposal must be made according to official regulations.
Ensure that waste is collected and contained.
· **Disposal procedures**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
· **Waste type** Partially emptied and uncleaned packaging
· **Exposure estimation**
· **Worker (dermal)**
Detailed information on the exposure estimation can be found at http://www.ecetoc.org/tra.
75-05-8 Without Local exhaust ventilation
PROC1 0.343 mg/kg BW/d
PROC2 1.37 mg/kg BW/d
PROC3 0.343 mg/kg BW/d
PROC4 6.86 mg/kg BW/d
PROC5 0.0686 mg/kg BW/d
PROC8b 0.686 mg/kg BW/d
PROC9 0.686 mg/kg BW/d
PROC15 0.0343 mg/kg BW/d

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The calculated value is smaller than the DNEL.
Risk Characterization ratio <1

· ***Worker (inhalation)***
Detailed information on the exposure estimation can be found at http://www.ecetoc.org/tra.
75-05-8 Without Local exhaust ventilation
PROC1 0.012 mg/m³
PROC2 12 mg/m³
PROC3 42.8 mg/m³
PROC4 24 mg/m³
PROC5 8.55 mg/m³
PROC8b 2.56 mg/m³
PROC9 34.2 mg/m³
PROC15 3.42 mg/m³
The calculated value is smaller than the DNEL.
Risk Characterization ratio <1

· ***Environment***
A chemical safety assessment was performed according REACH Article 14(3), Annex I, sections 3 (Environmental Hazard assessment) and 4 (PBT/vPvB Assessment). As no hazard was identified, an exposure assessment and risk characterization is not necessary (REACH Annex I section 5.0).

· ***Consumer*** *Not relevant for this Exposure Scenario.*

· ***Guidance for downstream users***
Please refer to the following documents: ECHA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system; ECHA Guidance for downstream users; ECHA Guidance on information requirements and chemical safety assessment Part D: Exposure Scenario Building, Part E: Risk Characterisation and Part G: Extending the SDS; VCI/Cefic REACH Practical Guides on Exposure Assessment and Communications in the Supply Chain; CEFIC Guidance Specific Environmental Release Categories (SPERCs).