

Material Safety Datasheet for Acetonitrile

This sheet applies to all peptides

Identification of the substance / preparation and of the company / undertaking

Product name	Acetonitrile
Supplier identification	Everest Biotech Ltd, Cherwell Innovation Centre, 77 Heyford Park, Upper Heyford, OX25 5HD.

Composition / information on ingredients

Chemical formula	CH ₃ CN
Chemical name	Acetonitrile
CAS number	75-05-8
EEC-No	247-852-1

Hazards identification

Very toxic if swallowed. Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

First aid measures

Eye contact	Irrigate thoroughly with water for at least 10 minutes. Seek medical advice.
Skin contact	Wash skin thoroughly with water. Remove contaminated clothing and wash before re-use. In severe cases, obtain medical attention.
Inhalation	Remove from exposure, rest and keep warm. In severe cases, seek medical advice.
Ingestion	Wash out mouth thoroughly with water and give plenty of water to drink. Seek medical advice.

Fire fighting measures

Special risks	May explode if heated. May evolve toxic fumes in fire.
Suitable extinguishing media	Not applicable.

Accidental release measures

Wear appropriate protective clothing. Inform others to keep a safe distance.
Spread soda ash liberally over spillage.
If local regulations permit, mop up cautiously with plenty of water and run to waste, diluting greatly with running water.
Otherwise transfer to container and arrange removal by disposal company.
Wash site of spillage thoroughly with water.

Handling and storage

Handling	Under no circumstances eat, drink or smoke while handling this material. Wash hands thoroughly after working with this material. Contaminated clothing should be removed and washed before re-use.
Storage	Store at 4°C Keep container closed and protected from direct sunlight and moisture. Store away from combustible materials.

Exposure controls / personal protection

As appropriate to quantity handled.

Respirator	Dust respirator.
Ventilation	Extraction hood.
Gloves	Rubber or plastic.
Eye protection	Goggles or face shield.
Other precautions	Plastic apron, sleeves, boots - if handling large quantities.

Physical and chemical properties

Form	Solid
Colour	White
Odour	Odourless
Melting point	No data available.
Boiling temperature	No data available.
Density	No data available.
Vapour pressure	No data available.
Solubility in water	Very soluble.
Flash point	
Explosion limits	No data available.
Ignition temperature	Auto-Ignition Temperature : 524°C (975.2°F)

Toxicological information

Absorbed through skin. Eye contact. Inhalation. Ingestion. Toxicity to Animals: Chronic Effects on Humans: DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [SUSPECTED]. Causes damage to the following organs: blood, kidneys, lungs, liver, mucous membranes, gastrointestinal tract, upper respiratory tract, skin, eyes, central nervous system (CNS). May cause damage to the following organs: the reproductive system. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator). Special Remarks on Toxicity to Animals: Not available. Special Remarks on Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Material is irritating to mucous membranes and upper respiratory tract.

Ecological information

Estimated Koc value = 16. Acetonitrile is expected to weakly adsorb to most soils based on the Koc value. Volatilization from soil surfaces and leaching into ground water is expected to be significant. Estimated BCF value = 0.3. This value indicates that acetonitrile will not significantly bioconcentrate in aquatic organisms or adsorb to suspended solids and sediments in water. Acetonitrile is unreactive towards photochemically-generated free radicals and direct photolysis in the gaseous phase.

Disposal considerations

Chemical residues are generally classified as special waste, and as such covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before disposal.

Transportation information

Shipping Name:	ACETONITRILE
Hazard Class:	3
UN Number:	UN1648