



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Acetonitrile for HPLC Gradient Grade
Cat No.	HP0005
CAS-No.	75-05-8
M.W.	41.05
EC-No.	200-835-2
Company	High Purity Laboratory Chemicals Pvt. Ltd.
Address	Plot No. 1902, Fansa Road, G.I.D.C., Sarigam – 396 155, DIST. Valsad, Gujarat (INDIA)
Email	customercare@hplcindia.com

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	75-05-8
Percent	>99.9%
Substance/Mixture	Substance
Synonym	Methyl cyanide
Chemical Formula	CH ₃ CN

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Flammable liquids	(Category 2)
Acute toxicity, Oral	(Category 4)
Acute toxicity, Inhalation	(Category 4)
Acute toxicity, Dermal	(Category 4)
Eye irritation	(Category 2)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols



Signal word

Danger

Hazard statement (s)

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 statement (s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.



SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, nitrogen oxides (NO _x)
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep insuitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A clear liquid, not more than 10 Hazen units in colour.
Odour	Ether-like
Odour Threshold	no data available
pH	no data available
Melting/freezing point	-48 °C
Boiling point/range	80-82°C
Flash point	2.0°C -closed cup
Evaporation rate	no data available
Vapour pressure	98.64 hPa at 20 °C
Vapour density	1.4
Relative density	0.780-0.783g
Water solubility	Soluble
LogPow	-0.54 at 25 °C
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties,	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Acids, Bases, Oxidizing agents, Reducing agents, Alkali metals
Hazardous decomposition products	no data available
Conditions to avoid	Heat, flames and sparks. Extremes of temperature and direct sunlight.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral - rat - male - 1.320 - 6.690 mg/kg LC50 Inhalation - mouse - 4 h - 3587 ppm (OECD Test Guideline 403) LC50 Inhalation - rat - 4 h - 26,8 mg/l LD50 Dermal - rabbit - male and female - > 2.000 mg/kg (OECD Test Guideline 402)
Skin corrosion/irritation	Skin - rabbit Result: No skin irritation (OECD Test Guideline 404)
Serious eye damage/irritation	Eyes - rabbit Result: Irritating to eyes. (OECD Test Guideline 405)
Respiratory/skin sensitization	Buehler Test - guinea pig Did not cause sensitisation on laboratory animals. (OECD Test Guideline 406)
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Animal testing did not show any effects on fertility.
Reproductive toxicity	Single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.
Specific target organ toxicity	Repeated exposure: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Specific target organ toxicity	
Aspiration hazard	No aspiration toxicity classification
RTECS	AL7700000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 1.640 mg/l - 96 h Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates	NOEC - Phaeodactylum tricornutum - 400 mg/l - 72 h (ISO 10253) ErC50 - Phaeodactylum tricornutum - 9.696 mg/l - 72 h (ISO 10253)
Persistence/degradation	Biodegradability Result: 70 % - Readily biodegradable (OECD Test Guideline 310)
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	1648
Proper shipping name	ACETONITRILE
Hazard class	3
Packaging group	II
Marine pollutant	No

SECTION 15: REGULATORY INFORMATION

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

Safety, health and environmental regulations/legislation specific for the substance/mixture :no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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