

TCI AMERICA SAFETY DATA SHEET

Revision number: 1 **Revision date: 07/06/2018**

1. IDENTIFICATION

Product name: Acetonitrile [for HPLC Solvent]

Product code: A0793

For laboratory research purposes. Product use: Restrictions on use: Not for drug or household use.

Company: TCI America

9211 N. Harborgate Street Portland, OR 97203 U.S.A.

Telephone:

+1-800-423-8616 / +1-503-283-1681

Fax:

+1-888-520-1075 / +1-503-283-1987

e-mail:

sales-US@TCIchemicals.com www.TCIchemicals.com

Emergency telephone number:

Chemical Emergencies:

TCI America (8:00am - 5:00pm) PST

+1-503-286-7624

Transportation Emergencies:

Chemtrec 24-Hour

+1-800-424-9300 (U.S.A.) +1-703-527-3887 (International)

Responsible department:

TCI America

Environmental Health Safety and Security

+1-503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Dermal [Category 3]

Eye Damage/Irritation [Category 2A] WHMIS 2015:

Germ Cell Mutagenicity [Category 2]

Specific Target Organ Toxicity (Single Exposure) [Category 1] Specific Target Organ Toxicity (Repeated Exposure) [Category 2]

Flammable Liquids [Category 2]

Signal word: Danger!

Hazard Statement(s): Highly flammable liquid and vapor

Toxic in contact with skin Causes serious eye irritation Suspected of causing genetic defects

Causes damage to: Respiratory System Central Nervous System

May cause damage to organs through prolonged or repeated exposure: Liver Blood System

Respiratory System Kidney Central Nervous System

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and hot surfaces. - No smoking, Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist, vapors or spray. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves,

protective clothing, face protection. [Response]

If on skin: Wash with plenty of soap and water. Call a poison center or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. If exposed: Call a poison center or doctor.

Store in a well-ventilated place. Keep cool. Store locked up.

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40

CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified: [HNOC]

[Storage] [Disposal]

May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components: Acetonitrile [for HPLC Solvent]

 Percent:
 >99.5%(GC)

 CAS RN:
 75-05-8

 Molecular Weight:
 41.05

 Chemical Formula:
 C2H3N

Synonyms: ACN, Methyl Cyanide

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

Call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Call a POISON CENTER or doctor/physician.

Ingestion: Call a POISON CENTER or doctor/physician. Rinse mouth.

Symptoms/effects:

Acute: Redness.

Delayed: May cause heritable genetic damage in humans.

Indication of any immediate medical attention:

Not available.

Notes to physician:
No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water in large amounts, carbon dioxide.

Hazardous combustion products: These products include: Carbon oxides Nitrogen oxides

Other specific hazards: Closed containers may explode from heat of a fire.

Advice for firefighters: Wear self-contained breathing apparatus if possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be

controlled around the leakage area by roping off, etc. Prevent product from entering drains.

Environmental precautions:

Methods and materials for containment

and cleaning up:

Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be

promptly disposed of, in accordance with appropriate laws and regulations.

Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use

spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

Prevention of secondary hazards:

Precautions for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent

generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands

and face thoroughly after handling.

Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.

Avoid all contact!

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place.

Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents.

Hygroscopic Comply with laws.

Packaging material:

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

ACGIH TLV(TWA): 20 ppm (skin) OSHA PEL(TWA): 40 ppm

Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed Appropriate engineering controls:

system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc.

Use respirators approved under appropriate government standards and follow local and national

regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Liquid Physical state (20°C): Form: Clear Colour: Colorless Ether-like Odour: Odor threshold: No data available **Odour threshold:** No data available

-46°C (-51°F) No data available Melting point/freezing point: pH: 82°C (180°F) Boiling point/range: Vapour pressure: No data available. 1.42

Decomposition temperature: No data available Vapour density:

Dynamic Viscosity: Relative density: 0.78 No data available

No data available Kinematic viscosity: Log Pow: No data available

Evaporation rate(Butyl No data available Acetate=1):

10°C (50°F) Autoignition temperature: 524°C (975°F) Flash point:

Flammability(solid, gas): No data available Flammability or explosive limits:

3% Lower: Upper: 16%

Solubility(ies):

Miscible [Water]

[Other solvents] Miscible: Ether, Alcohols

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under proper conditions. Possibility of hazardous reactions: No special reactivity has been reported. Conditions to avoid: Spark, Open flame, Static discharge

Incompatible materials: Oxidizing agents, Acids, Bases, Reducing agents, Alkali metals

Carbon monoxide, carbon dioxide etc Hazardous decomposition products:

11. TOXICOLOGICAL INFORMATION

RTECS Number: AL7700000

Acute Toxicity:

ihl-rat LC50:7551 ppm/8H orl-mus LD50:269 mg/kg orl-rat LD50:2460 mg/kg skn-rbt LD50:980 mg/kg

Skin corrosion/irritation: skn-rbt 500 mg open MLD

Serious eye damage/irritation:

eye-rbt 20 mg open SEV

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

sce-ham-ovr 5 g/L sln-dmg-ihl 131 ppm

sln-smc 47600 ppm

Carcinogenicity:

ihl-rat TCLo:400 ppm/6H/2Y-I

IARC: No data available NTP: No data available OSHA: No data available

Reproductive toxicity:

orl-ham TDLo: 300 mg/kg (8D preg)

Target organ(s):

Causes damage to: Respiratory System Central Nervous System

May cause damage to organs through prolonged or repeated exposure: Liver Blood System Respiratory System Kidney Central Nervous

System

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: 96h LC50:>100 mg/L (Oryzias latipes)
Crustacea: 48h EC50:>1000 mg/L (Daphnia magna)

Algae: 72h EC50:>700 mg/L (Selenastrum capricornutum)

Persistence / degradability: 65 % (NH3) (by BOD), 84 % (by TOC), 88 % (by GC)

Bioaccumulative potential(BCF):

Mobility in soil

Log Pow: -0.34
Soil adsorption (Koc): 120
Henry's Law (PaM ³/mol): 3.49

13. DISPOSAL CONSIDERATIONS

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and

Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for

Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not

be allowed to enter the environment, drains, water ways, or the soil.

Disposal of container:

Dispose of as unused product. Do not re-use empty containers.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US)

UN number: Proper Shipping Name: Class or Division: Packing Group:

UN1648 Acetonitrile 3 Flammable liquid

<u>IATA</u>

UN number: Proper Shipping Name: Class or Division: Packing Group:

UN1648 Acetonitrile 3 Flammable liquid

IMDG

er:

UN UN1648 Proper Shipping Name: Class or Division: Packing Group:

numb Acetonitrile 3 Flammable liquid II

EmS number: F-E, S-D

Reportable Quantitiy: 5000 Pounds (2270 Kilograms)

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313: Listed SARA 302: Not Listed

State Regulations

State Right-to-Know

MassachusettsListedNew JerseyListedPennsylvaniaListedCalifornia Proposition 65:Not Listed

Other Information

NFPA Rating: HMIS Classification:
Health: 2 Health: 3
Flammability: 3 Flammability: 3
Instability: 0 Physical: 0

International Inventories

 Canada: DSL
 On DSL

 EC-No:
 200-835-2

16. OTHER INFORMATION

Revision date: 07/06/2018 Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.