

Preparation Date: 01/01/2019

Revision Date: N/A

Revision Number: N/A

**1. IDENTIFICATION****Product identifier**

**Product code:** C1120  
**Product Name:** ACETONITRILE, REAGENT, ACS

**Other means of identification**

**Synonyms:** Cyanomethane  
Cyanure de methyl (French)  
acétonitrile (French)  
Ethanenitrile  
Ethyl nitrile  
Methane, cyano-  
Methanecarbonitrile  
Methyl Cyanide  
acetonitrilo (Spanish)  
**CAS #:** 75-05-8  
**RTECS #** AL7700000  
**CI#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** Solvent. Chemical intermediate. In organic synthesis.  
**Uses advised against** No information available

**Supplier:** Dawn Scientific Inc  
121 Liberty Street, Metuchen, NJ, 08840  
Tel : 732-902-6300 | Fax : 973-802-1005  
sales@dawnscientific.com | www.dawnscientific.com

**Emergency telephone number** Chemtrec 1-800-424-9300

**2. HAZARDS IDENTIFICATION****Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Gases)	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2A
Flammable liquids	Category 2

## Label elements

### **Danger**

#### **Hazard statements**

Harmful if swallowed  
Harmful in contact with skin  
Harmful if inhaled  
Causes serious eye irritation  
Highly flammable liquid and vapor



#### **Hazards not otherwise classified (HNOC)**

Not Applicable

#### **Other hazards**

Causes mild skin irritation

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep container tightly closed  
Ground container and receiving equipment  
Use explosion-proof equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge

#### **Precautionary Statements - Response**

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish.  
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 attention.  
Call a POISON CENTER or physician if you feel unwell  
Wash contaminated clothing before reuse  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.  
IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell  
Rinse mouth

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

#### **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS No	Weight-%
Acetonitrile	75-05-8	100

#### 4. FIRST AID MEASURES

##### First aid measures

<b>General Advice:</b>	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.
<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
<b>Eye Contact:</b>	Flush eyes with water for 15 minutes. Get medical attention.
<b>Inhalation:</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
<b>Ingestion:</b>	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

##### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Central nervous system effects Drowsiness Dizziness Headache Ataxia Convulsions Weakness Nausea Vomiting May cause cardiovascular effects May cause metabolic acidosis May affect respiration Causes serious eye irritation Moderate eye irritation Mild to moderate skin irritation
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##### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician:</b>	Patients with a potential ingestion or inhalation exposure to acetonitrile or products containing acetonitrile should be admitted to an intensive care unit for at least 24 to 48 hours of observation for the development of cyanide poisoning. Toxicity may be prolonged. Clinical deterioration has been reported as long as 3 days following the initial response to the antidote treatment. Antidote: Always have a cyanide antidote kit on hand when working with Acetonitrile or other cyanide compounds. Get medical advice on how to use it and when it should be used.
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##### Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

#### 5. FIRE-FIGHTING MEASURES

##### Extinguishing Media

**Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Alcohol-resistant

foam. Water spray.

**Unsuitable Extinguishing Media:**

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

**Specific hazards arising from the chemical**

**Hazardous combustion products**

Carbon Monoxide, Carbon Dioxide. Nitrogen oxides (NOx). Hydrogen cyanide.

**Specific hazards**

Flammable. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Fire may produce irritating, corrosive and/or toxic gases.

**Special Protective Actions for Firefighters**

**Specific Methods:**

No information available

**Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:**

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

**Environmental precautions**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Methods for containment**

Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up**

Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of

vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

#### Safe Handling Advice:

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

#### Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Protect from moisture. Keep away from heat and sources of ignition. Store in a segregated and approved area. Store away from incompatible materials.

#### Incompatible Materials:

Oxidizing agents  
Chlorine  
Fluorine  
Bromine  
Acids  
Sulfuric acid  
Chlorosulfonic acid  
Nitric acid  
Perchloric acid  
Oleum  
Nitrogen-Fluorine compounds  
Dinitrogen tetraoxide

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### National occupational exposure limits

##### United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Acetonitrile	75-05-8	40 ppm TWA 70 mg/m <sup>3</sup> TWA	20 ppm TWA 34 mg/m <sup>3</sup> TWA	20 ppm TWA	None

##### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Acetonitrile	75-05-8	20 ppm TWA 34 mg/m <sup>3</sup> TWA	20 ppm TWA	None	40 ppm TWAEV 67 mg/m <sup>3</sup> TWAEV 60 ppm STEV 101 mg/m <sup>3</sup> STEV

##### Australia and Mexico

Component	CAS No	Australia	Mexico
Acetonitrile	75-05-8	60 ppm STEL 101 mg/m <sup>3</sup> STEL 40 ppm TWA 67 mg/m <sup>3</sup> TWA	40 ppm TWA 70 mg/m <sup>3</sup> TWA 60 ppm STEL 105 mg/m <sup>3</sup> STEL

#### Appropriate engineering controls

**Engineering measures to reduce exposure:**

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

**Individual protection measures, such as personal protective equipment****Personal Protective Equipment**

<b>Eye protection:</b>	Goggles
<b>Skin and body protection:</b>	Chemical resistant apron Long sleeved clothing Gloves
<b>Respiratory protection:</b>	Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
<b>Hygiene measures:</b>	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state:</b> Liquid	<b>Appearance:</b> No information available.	<b>Color:</b> Clear. Colorless.
<b>Odor:</b> Aromatic. Sweet. Ethereal.	<b>Taste</b> Burning. Sweetish.	<b>Formula</b> CH <sub>3</sub> CN
<b>Molecular/Formula weight (g/mole):</b> 41.05	<b>Flammability (solid, gas)</b> no data available	<b>Flash point (°C):</b> 5.56
<b>Flashpoint (°C/°F):</b> 12.778 °C/55 °F 5.56 °C/42 °F	<b>Flash Point Tested according to:</b> Closed cup Open cup	<b>Autoignition Temperature (°C/°F):</b> 524 °C/975 °F
<b>Lower Explosion Limit (%):</b> 3%	<b>Upper Explosion Limit (%):</b> 16%	<b>Melting point/range(°C/°F):</b> -45 to -46 °C/-49 to -50.8 °F
<b>Decomposition temperature(°C/°F):</b> No information available	<b>Boiling point/range(°C/°F):</b> 81.6 °C/178.9 °F	<b>Bulk density:</b> No information available
<b>Density (g/cm<sup>3</sup>):</b> No information available	<b>Specific gravity:</b> 0.78-0.79	<b>pH</b> No information available
<b>Vapor pressure @ 20°C (kPa):</b> 9.73	<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> 1.42
<b>VOC content (g/L):</b> 780-790	<b>Odor threshold (ppm):</b> 40	<b>Partition coefficient (n-octanol/water):</b> -0.34
<b>Viscosity:</b> No information available	<b>Miscibility:</b> Miscible with Methanol Miscible with Ethanol Miscible with Ether Miscible with Acetone Miscible with Benzene Miscible with Carbon tetrachloride Miscible with Ethyl Acetate	<b>Solubility:</b> Freely soluble in water Soluble in hot alcohol Dissolves somewhat in inorganic salts such as silver nitrate, lithium nitrate, magnesium bromide

Miscible with Chloroform  
Miscible with Ethylene chloride  
Miscible with many unsaturated hydrocarbons  
Immiscible with many saturated hydrocarbons  
Equal weight of acetonitrile and the following materials are miscible at room temp: formic acid, acetic acid, levulinic acid, methanol, cellosolve solvent, formaldehyde, acetaldehyde, di-n-butyl amine, acetic anhydride, pyridine, nitrobenzene, aniline, xylene, phenol, acetyl chloride, dibutyl phthalate, diglycol stearate, n-butyl ether, dichloroethyl ether, methyl isobutyl ketone, nitromethane, nitroethane, nitropropane  
Miscible with Methanol  
Miscible with Methyl acetate

## 10. STABILITY AND REACTIVITY

### **Reactivity**

Will react with water, steam, or acids to produce toxic and flammable vapors  
Reactive with oxidizing agents  
Reactive with acids  
Reacts with Nitrogen-Fluorine compounds  
Reacts with Dinitrogen tetroxide

### **Chemical stability**

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials. Exposure to moisture. Exposure to water.

**Incompatible Materials:** Oxidizing agents  
Chlorine  
Fluorine  
Bromine  
Acids  
Sulfuric acid  
Chlorosulfonic acid  
Nitric acid  
Perchloric acid  
Oleum  
Nitrogen-Fluorine compounds  
Dinitrogen tetroxide

**Hazardous decomposition products:** Carbon monoxide. Carbon dioxide. Hydrogen cyanide (hydrocyanic acid). Nitrogen oxides (NOx). When heated to decomposition it emits highly toxic fumes.

### **Other Information**

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**

Ingestion. Skin. Eyes. Inhalation.

### Acute Toxicity

### Component Information

Acetonitrile	
CAS No	75-05-8
<b>LD50/oral/rat</b> = 160 mg/kg Oral LD50 Rat; 2460 mg/kg Oral LD50 Rat (LOLI); 4891 mg/kg (RTECS); 1327-6762 mg/kg (European Chemical Bureau IUCLID dataset)	
<b>LD50/oral/mouse</b> = 269 mg/kg (RTECS)	
<b>LD50/dermal/rabbit</b> = > 2000 mg/kg Dermal LD50 Rabbit(LOLI); 1250 mg/kg (European Chemical Bureau IUCLID dataset); 980 mg/kg (RTECS)	
<b>LD50/dermal/rat</b> = 390 mg/kg Dermal LD50 Rat	
<b>LC50/inhalation/rat</b> = 7551 ppm Inhalation LC50 Rat 8 h; 26.8 mg/L Inhalation LC50 4 h	
<b>LC50/inhalation/mouse</b> = 2693 ppm 1H	
<b>Other LD50 or LC50 information</b> = 5655 ppm 4 H Inhalation LC50 (Guinea Pig) 2828 ppm 4 H Inhalation LC50 (Rabbit)	

### Product Information

**LD50/oral/rat =**

**Value - Acute Toxicity** = 1327 mg/kg

**LD50/oral/mouse =**

**Value - Acute Tox** = 269 mg/kg

**LD50/dermal/rabbit**

**Value - Acute Toxicity** = 1250 mg/kg

**LD50/dermal/rat**

**VALUE - Acute Tox** = No information available

**LC50/inhalation/rat**

**VALUE-Vapor** = 26.8 mg/l (4-hr)

**VALUE-Gas** = 16000 ppm (4-hr)

**VALUE-Dust/Mist** = No information available

**LC50/Inhalation/mouse**

**VALUE-Vapor** = No information available

**VALUE - Gas** = 2693 ppm 1H

**VALUE - Dust/Mist** = No information available

### Symptoms

**Skin Contact:**

Mildly to moderately irritating to the skin. Harmful in contact with skin. It may be absorbed through the skin. If absorbed through skin it may cause systemic effects. It may be absorbed through the skin and cause symptoms similar to cyanide poisoning. It may be metabolized to cyanide which inhibits cytochrome oxidase



thus impairing cellular respiration.

**Eye Contact:** Causes serious eye irritation.

**Inhalation** May cause irritation of respiratory tract. It may cause pulmonary edema. May cause bronchitis. May cause pneumonia. May cause gastric distress. May cause nausea, vomiting. May cause salivation. It may be metabolized to cyanide which inhibits cytochrome oxidase thus impairing cellular respiration. It may cause symptoms similar to cyanide poisoning (see acute ingestion for symptoms). May affect the kidneys. It may affect the urinary system. It may affect respiration (anoxia, hypoxia, respiratory insufficiency, respiratory arrest). It may affect the cardiovascular system (hypotension, cardiac arrhythmias, cardiac arrest). Other symptoms of acute inhalation may include flushing of the face, sweating, weakness, chest pain/chest tightness, vomiting of blood, convulsions, shock, unconsciousness, coma/excitement alternating with coma. May cause corneal opacity.

**Ingestion** Harmful if swallowed. Ingestion may cause nausea, vomiting. May cause flushing of the face. May cause hematemesis. Ingestion may cause symptoms similar to cyanide poisoning. It may be metabolized to cyanide which inhibits cytochrome oxidase thus impairing cellular respiration. Cyanide poisoning is characterized by central nervous system, cardiovascular system, and respiratory system effects such as general weakness, giddiness, confusion, sleepiness, headache, dizziness, vertigo, seizures, ataxia, tetany, irritability, stupor, anxiety, hallucinations, agitation, tremors, unconciouness, coma, palpitations, cardiac arrhythmias, slow or rapid heartbeat, hypertension or hypotension, perceived breathing difficulty and shortness of breath, hyperventilation, asphyxiation/respiratory failure. Other symptoms may include excitement, chest pain, chest tightness, anoxia, hypoxia, shortness of breath, cardiac arrest. May cause metabolic acidosis. May cause lactic acidosis.

**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** Prolonged or repeated inhalation may cause loss of appetite. Prolonged or repeated ingestion may cause loss of appetite. Repeated or prolonged ingestion may affect the blood. Prolonged or repeated ingestion may affect the kidneys. Prolonged or repeated ingestion may affect the liver. Prolonged or repeated inhalation may affect the liver. Prolonged or repeated inhalation may affect the kidneys. Prolonged or repeated ingestion may affect the thyroid (hyperplasia/enlargment). Prolonged or repeated inhalation may affect the blood (changes in red blood cell count). Prolonged or repeated inhalation may cause central nervous system effects.

**Sensitization:** No information available.

**Mutagenic Effects:** May affect genetic material  
Sister Chromatid Exchange: Hamster ovary (RTECS)

**Carcinogenic effects:** Not classifiable as a human carcinogen. May cause cancer based on animal test data. Equivocal tumorigenic agent by RTECS criteria.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
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Acetonitrile	75-05-8	Not listed	A4 Not Classifiable as a Human Carcinogen	Not listed	Not listed	Not listed	Not listed
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ACGIH (American Conference of Governmental Industrial Hygienists)

A4 - Not Classifiable as a Human Carcinogen

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

### **Reproductive toxicity**

No data is available

### **Reproductive Effects:**

No information available

### **Developmental Effects:**

No information available

### **Teratogenic Effects:**

May cause birth defects (teratogenic effects) based on animal test data  
Showed teratogenic effects in animal experiments

### **Specific Target Organ Toxicity**

### **STOT - single exposure**

No information available.

### **STOT - repeated exposure**

No information available.

### **Target Organs:**

Blood. Liver. Kidneys. Central nervous system. Respiratory system. Lungs.  
Thyroid.

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

### **Ecotoxicity effects:**

Aquatic environment.

Acetonitrile - 75-05-8

### **Fish**

LC50: 1600 - 1690mg/L (96h, Pimephales promelas) LC50: =1000mg/L (96h, Pimephales promelas) LC50: =1850mg/L (96h, Lepomis macrochirus) LC50: =1650mg/L (96h, Poecilia reticulata)

### **Crustacea**

EC50: =5838mg/L (18h, Daphnia pulex)

### **Persistence and degradability:**

No information available

### **Bioaccumulative potential:**

No information available.

### **Mobility in soil**

No information available

### **Other adverse effects**

No information available.

## **13. DISPOSAL CONSIDERATIONS**

### **Disposal Methods**

### **Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

### **Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
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Acetonitrile	75-05-8	None	None	None	U003 ignitable waste, toxic waste
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#### 14. TRANSPORT INFORMATION

##### DOT

**UN-No:** UN1648  
**Proper Shipping Name:** Acetonitrile  
**Hazard Class** 3  
**Subsidiary Class** No information available  
**Packing group:** II  
**Emergency Response Guide Number** 127  
**Marine Pollutant** No data available  
**DOT RQ (lbs):** 5000 lbs./2270 kg  
**Special Provisions** IB2, T7, TP2  
**Symbol(s):** [DOT]: (R5) - Identifies a material that is a hazardous substance that has a reportable quantity (RQ) of 5000 pounds (2270 Kilograms).  
**Description:** UN1648, Acetonitrile, 3, II

##### TDG (Canada)

**UN-No:** UN1648  
**Proper Shipping Name:** Acetonitrile  
**Hazard Class** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant** No Information available  
**Description:** UN1648, Acetonitrile, 3, II

##### ADR

**UN Number** UN1648  
**Proper Shipping Name:** Acetonitrile  
**Transport hazard class(es)** 3  
**Packing group** II  
**Subsidiary Risk:** No information available  
**Description:** UN1648, Acetonitrile, 3, II

##### IMDG

**UN-No:** UN1648  
**Proper Shipping Name:** Acetonitrile  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant** No information available  
**EMS:** F-E  
**Description** UN1648, Acetonitrile, 3, II

##### RID

**UN Number** UN1648  
**Proper Shipping Name:** Acetonitrile  
**Transport hazard class(es)** 3  
**Subsidiary Risk:** 3  
**Packing group** II  
**Description:** UN1648, Acetonitrile, 3, II

##### ICAO (air)

**UN-No:** UN1648

**Proper Shipping Name:** Acetonitrile  
**Hazard Class** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** UN1648, Acetonitrile, 3, II

#### IATA

**UN Number** UN1648  
**Proper Shipping Name:** Acetonitrile  
**Transport hazard class(es)** 3  
**Subsidiary Risk:** No information available  
**Packing group** II  
**Precautionary Statements - Response** 3L  
**Special Provisions** No information available  
**Description:** UN1648, Acetonitrile, 3, II

### 15. REGULATORY INFORMATION

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Acetonitrile	75-05-8	PresentACTIVE	PresentKE-00067	Present	Present(2)-1508	Present	Present	Present200-835-2

#### U.S. Regulations

##### Acetonitrile

**Massachusetts RTK:** Present  
**New Jersey RTK Hazardous Substance List:** 0008  
**New Jersey (EHS) List:** 0008 500 lb TPQ  
**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present  
**Pennsylvania RTK:** Environmental hazard  
**Pennsylvania RTK - Environmental Hazard List** Present  
**Minnesota - Hazardous Substance List:** Present  
**New York Release Reporting - List of Hazardous Substances:**  
 5000 lb RQ  
 1 lb RQ  
**Louisiana Reportable Quantity List for Pollutants:** 5000lbfinal RQ  
 2270kgfinal RQ  
**California Directors List of Hazardous Substances:** Present

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

##### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

##### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Acetonitrile	75-05-8	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable	Section 302 Extremely Hazardous Substances	Section 302 Extremely Hazardous Substances and	Section 313 - Chemical Category	Section 313 - Reporting de minimis

		Quantities	and TPQs	RQs		
Acetonitrile	75-05-8	5000 lb final RQ 2270 kg final RQ	None	None	None	1.0 % de minimis concentration

## U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Acetonitrile	75-05-8	Not Applicable	Not Applicable

## Canada

### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component  
Acetonitrile  
75-05-8 ( 100 )

WHMIS 2015 Hazard Classification  
Flammable liquids - Category 2: H225 Highly flammable liquid and vapour.; Acute toxicity - Oral - Category 3: H301 Toxic if swallowed.; Acute toxicity - Dermal - Category 4: H312 Harmful in contact with skin.; Acute toxicity - Inhalation - Category 3: H331 Toxic if inhaled.; Serious Eye Damage/Eye Irritation - Category 2A: H319 Causes serious eye irritation.

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

## DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Acetonitrile	75-05-8	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Acetonitrile	75-05-8	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Acetonitrile	75-05-8	Not listed

## EU Classification

### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Acetonitrile	75-05-8	Flammable liquids - Flam. Liq. 2: H225 Highly flammable liquid and vapour.; Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Acute toxicity - Dermal - Acute Tox. 4: H312 Harmful in contact with skin. (Minimum classification); Acute toxicity - Inhalation - Acute Tox. 4: H332 Harmful if inhaled. (Minimum classification); Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation.608-001-00-3

EU - CLP (1272/2008)

**R-phrases(s)**

R11 - Highly flammable

R36 - Irritating to eyes

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

**S -phrase(s)**

S16 - Keep away from sources of ignition - No smoking

S36/37 - Wear suitable protective clothing and gloves

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Acetonitrile	75-05-8	F; R11 Xn; R20/21/22 Xi; R36	No information	S2 S16 S36/37

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

F - Highly flammable

Xn - Harmful

Xi - Irritant

Xn



Xi



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**16. OTHER INFORMATION**

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**Prepared by:** -

**Disclaimer:**

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**End of Safety Data Sheet**