

Issue Date 09-Sep-2021

Revision Date 14-Jan-2022

Version 1

## 1. IDENTIFICATION

### Product identifier

Product Name Potency

### Other means of identification

Product Code CMPT-023, CMPT-076, CMPT-077

UN/ID no. 1648

Synonyms None

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

Recommended Use For Laboratory Use Only.

Uses advised against No information available

### Details of the supplier of the safety data sheet

#### Manufacturer Address

NSI Lab Solutions, Inc.

7212 ACC Blvd.

Raleigh, NC 27617

### Emergency telephone number

Company Phone Number 800-234-7837

FAX 919-789-3019

Website www.nsilabsolutions.com

E-mail address nsi@nsilabsolutions.com

Emergency Telephone 919-349-7322

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

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

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

### Label elements

#### **Emergency Overview**

#### **Danger**

#### **Hazard statements**

H319: Causes serious eye irritation

H225: Highly flammable liquid and vapor

**Appearance** Clear liquid**Physical state** Liquid**Odor** Ether-like**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

Specific treatment (see supplemental first aid on this label).  
 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/attention  
 IF ON SKIN: Wash with plenty of water and soap  
 Call a POISON CENTER or doctor if you feel unwell  
 Take off contaminated clothing and wash it before reuse  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 Call a POISON CENTER or doctor if you feel unwell  
 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell  
 Rinse mouth

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

May be harmful if inhaled

Unknown acute toxicity

1 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

| Chemical Name | CAS No. | Weight-% |
|---------------|---------|----------|
| Acetonitrile  | 75-05-8 | 95 - 99  |

Refer to Certificate of Analysis for exact percentage concentration.

### 4. FIRST AID MEASURES

**Description of first aid measures****General advice**

In case of accident or unwellness, seek medical advice immediately (show directions for use or Safety Data Sheet, if possible).

**Eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.  
 Consult a physician.

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|                     |                                                                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin contact</b> | Wash skin with soap and water.                                                                                                                                       |
| <b>Inhalation</b>   | Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration. (Get medical attention immediately if symptoms occur.). |
| <b>Ingestion</b>    | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water. (Get medical attention immediately if symptoms occur.).       |

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

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

Carbon oxides.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames.

**Protective equipment and precautions 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, especially in confined areas.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

| Chemical Name           | ACGIH TLV         | OSHA PEL                                                                                                                                                                                                                                                  | NIOSH IDLH                                                                              |
|-------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Acetonitrile<br>75-05-8 | TWA: 20 ppm<br>S* | TWA: 40 ppm<br>TWA: 70 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> CN<br>(vacated) TWA: 40 ppm<br>(vacated) TWA: 70 mg/m <sup>3</sup> (vacated)<br>TWA: 5 mg/m <sup>3</sup><br>(vacated) STEL: 60 ppm<br>(vacated) STEL: 105 mg/m <sup>3</sup><br>S* as CN | IDLH: 137 ppm IDLH: 25 mg/m <sup>3</sup> CN<br>TWA: 20 ppm<br>TWA: 34 mg/m <sup>3</sup> |

### Appropriate engineering controls

**Engineering Controls** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                |                          |                                |                          |
|--------------------------------|--------------------------|--------------------------------|--------------------------|
| <b>Physical state</b>          | Liquid                   | <b>Odor</b>                    | Ether-like               |
| <b>Appearance</b>              | Clear liquid             | <b>Odor threshold</b>          | No information available |
| <b>Color</b>                   | No information available |                                |                          |
| <b><u>Property</u></b>         | <b><u>Values</u></b>     | <b><u>Remarks • Method</u></b> |                          |
| pH                             | No information available |                                |                          |
| Melting point / freezing point | No information available |                                |                          |
| Boiling point / boiling range  | No information available |                                |                          |
| Flash point                    | No information available |                                |                          |
| Evaporation rate               | No information available |                                |                          |
| Flammability (solid, gas)      | No information available |                                |                          |
| Flammability Limit in Air      |                          |                                |                          |
| Upper flammability limit:      | No information available |                                |                          |
| Lower flammability limit:      | No information available |                                |                          |
| Vapor pressure                 | No information available |                                |                          |
| Vapor density                  | No information available |                                |                          |
| Relative density               | No information available |                                |                          |
| Water solubility               | No information available |                                |                          |
| Solubility in other solvents   | No information available |                                |                          |

|                           |                          |
|---------------------------|--------------------------|
| Partition coefficient     | No information available |
| Autoignition temperature  | No information available |
| Decomposition temperature | No information available |
| Kinematic viscosity       | No information available |
| Dynamic viscosity         | No information available |
| Explosive properties      | No information available |
| Oxidizing properties      | No information available |

**Other Information**

|                  |                          |
|------------------|--------------------------|
| Softening point  | No information available |
| Molecular weight | No information available |
| VOC Content (%)  | No information available |
| Density          | No information available |
| Bulk density     | No information available |

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Extremes of temperature and direct sunlight.

**Incompatible materials**

None known based on information supplied.

**Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

|                            |                                   |
|----------------------------|-----------------------------------|
| <b>Product Information</b> | No data available                 |
| <b>Inhalation</b>          | H331: Toxic by inhalation.        |
| <b>Eye contact</b>         | H320: Irritating to eyes.         |
| <b>Skin contact</b>        | H311: Toxic in contact with skin. |
| <b>Ingestion</b>           | H301: Toxic if swallowed.         |

| Chemical Name           | Oral LD50                                | Dermal LD50                                    | Inhalation LC50                                |
|-------------------------|------------------------------------------|------------------------------------------------|------------------------------------------------|
| Acetonitrile<br>75-05-8 | = 160 mg/kg ( Rat ) = 2460 mg/kg ( Rat ) | = 390 mg/kg ( Rabbit ) > 2000 mg/kg ( Rabbit ) | = 26.8 mg/L ( Rat ) 4 h = 7551 ppm ( Rat ) 8 h |

**Information on toxicological effects**

|                 |                           |
|-----------------|---------------------------|
| <b>Symptoms</b> | No information available. |
|-----------------|---------------------------|

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

|                                 |                           |
|---------------------------------|---------------------------|
| <b>Sensitization</b>            | No information available. |
| <b>Germ cell mutagenicity</b>   | No information available. |
| <b>Carcinogenicity</b>          | No information available. |
| <b>Reproductive toxicity</b>    | No information available. |
| <b>STOT - single exposure</b>   | No information available. |
| <b>STOT - repeated exposure</b> | No information available. |
| <b>Aspiration hazard</b>        | No information available. |

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

|                                      |           |
|--------------------------------------|-----------|
| <b>ATEmix (oral)</b>                 | 505.00    |
| <b>ATEmix (dermal)</b>               | 1,111.00  |
| <b>ATEmix (inhalation-dust/mist)</b> | 1.50      |
| <b>ATEmix (inhalation-vapor)</b>     | 10,786.59 |

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

1 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| <b>Chemical Name</b>    | <b>Algae/aquatic plants</b> | <b>Fish</b>                                                                                                                                                                                                           | <b>Crustacea</b>                   |
|-------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Acetonitrile<br>75-05-8 | -                           | 1600 - 1690: 96 h Pimephales promelas mg/L LC50 flow-through<br>1000: 96 h Pimephales promelas mg/L LC50 static<br>1650: 96 h Poecilia reticulata mg/L LC50 static<br>1850: 96 h Lepomis macrochirus mg/L LC50 static | 5838: 18 h Daphnia pulex mg/L EC50 |

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container.

| <b>Chemical Name</b>    | <b>RCRA</b> | <b>RCRA - Basis for Listing</b>                      | <b>RCRA - D Series Wastes</b> | <b>RCRA - U Series Wastes</b> |
|-------------------------|-------------|------------------------------------------------------|-------------------------------|-------------------------------|
| Acetonitrile<br>75-05-8 | U003        | Included in waste streams:<br>F039, K011, K013, K014 | -                             | U003                          |

| <b>Chemical Name</b>    | <b>California Hazardous Waste Status</b> |
|-------------------------|------------------------------------------|
| Acetonitrile<br>75-05-8 | Toxic<br>Ignitable                       |

**14. TRANSPORT INFORMATION**

**DOT**  
 UN/ID no. 1648  
 Proper shipping name Acetonitrile  
 Hazard Class 3  
 Packing Group II  
 Reportable Quantity (RQ) 5000 lbs

**IATA**  
 UN/ID no. 1648  
 Proper shipping name Acetonitrile  
 Hazard Class 3  
 Packing Group II

**IMDG**  
 UN/ID no. 1648  
 Proper shipping name Acetonitrile  
 Hazard Class 3  
 Packing Group II

## 15. REGULATORY INFORMATION

### International Inventories

TSCA Complies  
 DSL/NDSL Complies  
 EINECS/ELINCS Complies  
 ENCS Complies  
 IECSC Complies  
 KECL Complies  
 PICCS Complies  
 AICS Complies

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name          | SARA 313 - Threshold Values % |
|------------------------|-------------------------------|
| Acetonitrile - 75-05-8 | 1.0                           |

#### SARA 311/312 Hazard Categories

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire hazard                       | Yes |
| Sudden release of pressure hazard | No  |

Reactive Hazard

No

**CWA (Clean Water Act)**

This product, as supplied, does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

This product may contain substances regulated by state right-to-know regulations

| Chemical Name           | New Jersey | Massachusetts | Pennsylvania |
|-------------------------|------------|---------------|--------------|
| Acetonitrile<br>75-05-8 | X          | X             | X            |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

|                                                                                  |
|----------------------------------------------------------------------------------|
| <b>16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION</b> |
|----------------------------------------------------------------------------------|

|                                   |                           |                |                    |                                    |
|-----------------------------------|---------------------------|----------------|--------------------|------------------------------------|
| <b><u>NFPA</u></b>                | Health hazards 2          | Flammability 3 | Instability 0      | Physical and Chemical Properties - |
| <b><u>HMIS</u></b>                | Health hazards 2*         | Flammability 3 | Physical hazards 0 | Personal protection X              |
| <i>Chronic Hazard Star Legend</i> | * = Chronic Health Hazard |                |                    |                                    |

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Revision Date 14-Jan-2022

Revision Note

No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet