

Revision date 28-Jun-2024

Revision Number 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

<b>Product Catalog Number:</b> 40-4115-XX	<b>Product Description:</b> 20% 1-Methylimidazole in Acetonitrile/ 2,6-Lutidine
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**Product Code(s)**  
40-4115-XX

**Product Name**  
Cap Mix A

**Synonyms** Methyl cyanide, ACN

**Pure substance/mixture** Mixture  
Contains 2,6-Lutidine; Acetonitrile; N-Methylimidazole

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** For research use only

**Uses advised against** Not for human diagnostic use

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

**Manufacturer** Glen Research LLC  
22825 Davis Drive  
Sterling, VA 20164 USA

*For further information, please contact*

**Company Phone Number** 1-703-437-6191

**Website** [www.glenresearch.com](http://www.glenresearch.com)

**E-mail address** [support@glenresearch.com](mailto:support@glenresearch.com)

### 1.4. Emergency telephone number

**Emergency Telephone** CHEMTREC Customer Number (CCN): 234802 Glen Research Corporation  
US: 1-800-424-9300 or Local: +1-703-527-3887  
EMEA: +44 20 3885 0382  
APAC: +65 3163 8374

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to  
Regulation (EC) No. 1272/2008 [CLP]

<b>Acute toxicity - Oral</b>	Category 4 - (H302)
<b>Acute toxicity - Dermal</b>	Category 4 - (H312)

<b>Acute toxicity - Inhalation (Vapors)</b>	Category 4 - (H332)
<b>Skin corrosion/irritation</b>	Category 1 Sub-category B - (H314)
<b>Serious eye damage/eye irritation</b>	Category 1 - (H318)
<b>Flammable liquids</b>	Category 2 - (H225)

## 2.2. Label elements

Contains 2,6-Lutidine; Acetonitrile; N-Methylimidazole



**Signal word**  
Danger

### Hazard statements

H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H314 - Causes severe skin burns and eye damage  
H332 - Harmful if inhaled  
H225 - Highly flammable liquid and vapor

### Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor  
P370 + P378 - In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam to extinguish  
P403 + P235 - Store in a well-ventilated place. Keep cool

### Additional information

This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

## 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No. (Index No.)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Acetonitrile 75-05-8	30-75	No data available	(608-001-00-3) 200-835-2	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Flam. Liq. 2 (H225)	-	-	-

2,6-Lutidine 108-48-5	15-40	No data available	203-587-3	No data available	-	-	-
N-Methylimidazole 616-47-7	10-30	No data available	210-484-7 (613-035-00 -7)	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Corr. 1B (H314)	-	-	-

**Full text of H- and EUH-phrases: see section 16**

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Acetonitrile 75-05-8	No data available	2000	26.8	No data available	No data available
2,6-Lutidine 108-48-5	400	No data available	No data available	No data available	No data available
N-Methylimidazole 616-47-7	1144	400	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
<b>Inhalation</b>	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.
<b>Self-protection of the first aider</b>	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid breathing vapors or mists.

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

<b>Symptoms</b>	Metabolism may release cyanide, which may result in headache, dizziness, weakness, collapse, unconsciousness, and possible death. Burning sensation. Coughing and/ or
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wheezing. Difficulty in breathing.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

#### **5.2. Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical** Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous combustion products** Hydrogen cyanide. Nitrogen oxides (NO<sub>x</sub>). Carbon oxides.

#### **5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Attention! Corrosive material. Avoid breathing vapors or mists.

**Other information** Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

#### **6.2. Environmental precautions**

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Should not be released into the environment. Do not allow to enter into soil/subsoil.

#### **6.3. Methods and material for containment and cleaning up**

**Methods for containment** Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff

water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children. Store locked up. Protect from moisture. Store away from other materials.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Acetonitrile 75-05-8	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup> *	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup> STEL 160 ppm STEL 280 mg/m <sup>3</sup> H*	TWA: 20 ppm TWA: 34 mg/m <sup>3</sup> D*	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup> K*	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup> *
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland

Acetonitrile 75-05-8	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup> Ceiling: 100 mg/m <sup>3</sup> D*	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup> H* STEL: 80 ppm STEL: 140 mg/m <sup>3</sup>	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup> A*	TWA: 20 ppm TWA: 34 mg/m <sup>3</sup> STEL: 40 ppm STEL: 68 mg/m <sup>3</sup> iho*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Acetonitrile 75-05-8	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup> *	TWA: 10 ppm TWA: 17 mg/m <sup>3</sup> H*	TWA: 10 ppm TWA: 17 mg/m <sup>3</sup> Peak: 20 ppm Peak: 34 mg/m <sup>3</sup> *	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup> STEL: 60 ppm STEL: 105 mg/m <sup>3</sup> *	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup> b*
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Acetonitrile 75-05-8	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup> STEL: 120 ppm STEL: 310 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 35 mg/m <sup>3</sup> cute*	TWA: 20 ppm TWA: 34 mg/m <sup>3</sup> cute*	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup> Ada*	O* TWA: 40 ppm TWA: 70 mg/m <sup>3</sup>
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Acetonitrile 75-05-8	Peau* TWA: 40 ppm TWA: 70 mg/m <sup>3</sup>	skin* TWA: 40 ppm TWA: 70 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 34 mg/m <sup>3</sup> STEL: 4.5 ppm STEL: 5 mg/m <sup>3</sup> H*	TWA: 30 ppm TWA: 50 mg/m <sup>3</sup> STEL: 45 ppm STEL: 75 mg/m <sup>3</sup> H*	STEL: 140 mg/m <sup>3</sup> TWA: 70 mg/m <sup>3</sup> skóra*
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Acetonitrile 75-05-8	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup> Cutânea*	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup> STEL: 1 mg/m <sup>3</sup> P*	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup> K* Ceiling: 5 mg/m <sup>3</sup>	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup> STEL: 140 mg/m <sup>3</sup> STEL: 80 ppm K*	TWA: 40 ppm TWA: 68 mg/m <sup>3</sup> vía dérmica*
Chemical name	Sweden		Switzerland	United Kingdom	
Acetonitrile 75-05-8	NGV: 30 ppm NGV: 50 mg/m <sup>3</sup> Vägledande KGV: 60 ppm Vägledande KGV: 100 mg/m <sup>3</sup> H*		TWA: 20 ppm TWA: 34 mg/m <sup>3</sup> STEL: 40 ppm STEL: 68 mg/m <sup>3</sup> H*	TWA: 40 ppm TWA: 68 mg/m <sup>3</sup> STEL: 60 ppm STEL: 102 mg/m <sup>3</sup> Sk*	

### Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Acetonitrile 75-05-8	-	-	-	6.5 mg/24 hours - urine (Thiocyanates) - urine collected over 24 hours <3 mg - urine and blood (Thiocyanate ratio in urine (mg/g Creatinine) and Carboxyhemoglobin in blood (%)) - urine and blood collected at the end of the work shift	-

**Derived No Effect Level (DNEL)** No information available.  
**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

**Engineering controls** Showers

Eyewash stations  
Ventilation systems

**Personal protective equipment**

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	Clear Liquid
<b>Color</b>	Clear
<b>Odor</b>	Pungent Sweet Ether-like odor
<b>Odor threshold</b>	170 ppm

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / freezing point</b>	No data available	None known
<b>Initial boiling point and boiling range</b>	No data available	None known
<b>Flammability</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Flash point</b>	2.0 °C	(Acetonitrile)
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>		None known
<b>pH</b>	No data available	None known
<b>pH (as aqueous solution)</b>	No data available	No information available
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Water solubility</b>	Completely soluble	None known
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Vapor pressure</b>	No data available	None known
<b>Relative density</b>	No data available	None known
<b>Bulk density</b>	No data available	
<b>Liquid Density</b>	No data available	
<b>Relative vapor density</b>	No data available	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	No information available	

## 9.2. Other information

9.2.1. Information with regard to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

**Reactivity** No information available.

### 10.2. Chemical stability

**Stability** Stable under normal conditions.

#### **Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** Yes.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

### 10.4. Conditions to avoid

**Conditions to avoid** Heat, flames and sparks. Exposure to air or moisture over prolonged periods. Excessive heat.

### 10.5. Incompatible materials

**Incompatible materials** Acids. Bases. Oxidizing agent.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Hydrogen cyanide. Nitrogen oxides (NOx). Carbon oxides.

## **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

##### **Product Information**

##### **Inhalation**

Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. Harmful by inhalation.

##### **Eye contact**

Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.

**Skin contact** Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. May be absorbed through the skin in harmful amounts. Harmful in contact with skin.

**Ingestion** Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Metabolism may release cyanide, which may result in headache, dizziness, weakness, collapse, unconsciousness, and possible death. Redness. Burning. May cause blindness. Coughing and/ or wheezing.

### Acute toxicity

#### Numerical measures of toxicity

No information available

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

ATEmix (oral)	576.30 mg/kg
ATEmix (dermal)	1,100.00 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-dust/mist)	99,999.00 mg/l
ATEmix (inhalation-vapor)	11.00 mg/l

#### Unknown acute toxicity

30 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Acetonitrile	617 mg/kg (mouse)	> 2000 mg/kg ( Rabbit )	= 26.8 mg/L ( Rat ) 4 h
2,6-Lutidine	= 400 mg/kg ( Rat )	-	-
N-Methylimidazole	= 1144 mg/kg ( Rat )	400 - 640 mg/kg ( Rabbit )	-

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

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes severe skin burns and eye damage.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye damage. Causes burns.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 11.2.2. Other information

**Other adverse effects** No information available.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

#### Ecotoxicity

**Unknown aquatic toxicity** Contains 30 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Acetonitrile	-	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)	-	-

### 12.2. Persistence and degradability

**Persistence and degradability** Not Likely.

### 12.3. Bioaccumulative potential

#### Bioaccumulation

**Bioconcentration factor (BCF)** log Pow <= 4

#### Component Information

Chemical name	Partition coefficient
Acetonitrile	-0.34
N-Methylimidazole	-0.19

### 12.4. Mobility in soil

**Mobility in soil** Not expected to adsorb on soil.

**Mobility** Soluble in water.

**12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment** No information available.

Chemical name	PBT and vPvB assessment
Acetonitrile	The substance is not PBT / vPvB
N-Methylimidazole	The substance is not PBT / vPvB

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Waste from residues/unused products** Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

**SECTION 14: Transport information****IATA**

<b>14.1 UN number or ID number</b>	UN2924
<b>14.2 UN proper shipping name</b>	Flammable liquid, corrosive, n.o.s. (Acetonitrile, N-Methylimidazole)
<b>14.3 Transport hazard class(es)</b>	3
<b>Subsidiary hazard class</b>	8
<b>14.4 Packing group</b>	II
<b>Description</b>	UN2924, Flammable liquid, corrosive, n.o.s. (Acetonitrile, N-Methylimidazole), 3 (8), II
<b>14.5 Environmental hazards</b>	No
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	A3, A803
<b>ERG Code</b>	3CH

**IMDG**

<b>14.1 UN number or ID number</b>	UN2924
<b>14.2 UN proper shipping name</b>	Flammable liquid, corrosive, n.o.s. (Acetonitrile, N-Methylimidazole)
<b>14.3 Transport hazard class(es)</b>	3
<b>Subsidiary hazard class</b>	8
<b>14.4 Packing group</b>	II
<b>Description</b>	UN2924, Flammable liquid, corrosive, n.o.s. (Acetonitrile, N-Methylimidazole), 3 (8), II, (2°C c.c.)
<b>14.5 Environmental hazards</b>	No
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274
<b>EmS-No.</b>	F-E, S-C
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No information available

**RID**

<b>14.1 UN number or ID number</b>	UN2924
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<b>14.2 UN proper shipping name</b>	Flammable liquid, corrosive, n.o.s. (Acetonitrile, N-Methylimidazole)
<b>14.3 Transport hazard class(es)</b>	3
<b>Subsidiary hazard class</b>	8
<b>14.4 Packing group</b>	II
<b>Description</b>	UN2924, Flammable liquid, corrosive, n.o.s. (Acetonitrile, N-Methylimidazole), 3 (8), II
<b>14.5 Environmental hazards</b>	No
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274
<b>Classification code</b>	FC

**ADR**

<b>14.1 UN number or ID number</b>	UN2924
<b>14.2 UN proper shipping name</b>	Flammable liquid, corrosive, n.o.s. (Acetonitrile, N-Methylimidazole)
<b>14.3 Transport hazard class(es)</b>	3
<b>Subsidiary hazard class</b>	8
<b>14.4 Packing group</b>	II
<b>Description</b>	UN2924, Flammable liquid, corrosive, n.o.s. (Acetonitrile, N-Methylimidazole), 3 (8), II, (D/E)
<b>14.5 Environmental hazards</b>	No
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274
<b>Classification code</b>	FC
<b>Tunnel restriction code</b>	(D/E)

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****France****Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number	Title
Acetonitrile 75-05-8	RG 84	-

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Acetonitrile - 75-05-8	75.	-
N-Methylimidazole - 616-47-7	75.	-

**Persistent Organic Pollutants**

Not applicable

**Dangerous substance category per Seveso Directive (2012/18/EU)**

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**International Inventories**

<b>TSCA</b>	All of the components of this product are listed in the TSCA Inventory or exempt.
<b>DSL/NDSL</b>	Listed or exempt
<b>EINECS/ELINCS</b>	Listed or exempt
<b>ENCS</b>	Listed or exempt
<b>IECSC</b>	Listed or exempt
<b>KECI</b>	Listed or exempt
<b>PICCS</b>	Listed or exempt
<b>AIIC</b>	Listed or exempt

**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 Chemicals Inventory  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIIC** - Australian Inventory of Industrial Chemicals

**15.2. Chemical safety assessment**

**Chemical Safety Report** No information available

**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H225 - Highly flammable liquid and vapor  
H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H314 - Causes severe skin burns and eye damage  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled

**Legend**

SVHC: Substances of Very High Concern for Authorization:

**Legend Section 8: Exposure controls/personal protection**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation

**Revision date** 28-Jun-2024

**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)****Disclaimer**

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**End of Safety Data Sheet**