# Safety Data Sheet
**acc. to OSHA HCS**

Date of issue: 11/10/2026 Revision date 11/10/2026

## 1 Identification

· **Product identifier**

· **Trade name: Methoxycarbonyl Etomidate**
· **Other means of identification**

· **Article number:** 45259
· **Application of the substance / the mixture**
This product is for research use - Not for human or veterinary diagnostic or therapeutic use.

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Cayman Chemical Co.
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108
USA

· **Information department:** Product safety department
· **Emergency telephone number:**
During normal opening times: +1 (734) 971-3335
US/CANADA: 800-424-9300
Outside US/CANADA: 703-741-5970

## 2 Hazard(s) identification

· **Classification of the substance or mixture**


GHS02 Flame

| | |
|---|---|
| Flammable liquids 2 | H225 Highly flammable liquid and vapor. |


GHS07

| | |
|---|---|
| Acute toxicity - oral 4 | H302 Harmful if swallowed. |
| Acute toxicity - dermal 4 | H312 Harmful in contact with skin. |
| Acute toxicity - inhalation 4 | H332 Harmful if inhaled. |
| Eye irritation 2A | H319 Causes serious eye irritation. |

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).

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· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Danger

· **Hazard-determining components of labeling:**
Acetonitrile

· **Hazard statements**

| | |
|---|---|
| H225 | Highly flammable liquid and vapor. |
| H302+H312+H332 | Harmful if swallowed, in contact with skin or if inhaled. |
| H319 | Causes serious eye irritation. |

· **Precautionary statements**

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground / bond container and receiving equipment. |
| P241 | Use explosion-proof [electrical/ventilating/lighting] equipment. |
| P242 | Use non-sparking tools. |
| P243 | Take action to prevent static discharge. |
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray |
| P264 | Wash thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P301+P312 | If swallowed: Call a poison center/doctor if you feel unwell. |
| P303+P361+P353 | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P304+P340 | If inhaled: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P321 | Specific treatment (see on this label). |
| P330 | Rinse mouth. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P370+P378 | In case of fire: Use CO2, powder or water spray to extinguish. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

· **Information pertaining to particular dangers for man and environment:**
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**




Health = 2
Fire = 3
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**




Health = 2
Fire = 3
Reactivity = 0

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· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **Classification according to (d)(1)(ii) of § 1910.1200**
The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.
· **Hazards not otherwise classified**
There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

## 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

| | | |
|---|---|---|
| CAS: 75-05-8<br>RTECS: AL7700000 | Acetonitrile | 99.0% |

· **Other ingredients**

| | | |
|---|---|---|
| 1198154-78-7 | Methoxycarbonyl Etomidate | 1.0% |

## 4 First-aid measures

· **Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately rinse with water.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** Immediately call a doctor.
· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

## 5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Special hazards arising from the substance or mixture** No further relevant information available.

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· **Advice for firefighters**
· **Protective equipment:** Mouth respiratory protective device.

## 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· **Protective Action Criteria for Chemicals**

| · **PAC-1:** | | |
|---|---|---|
| 75-05-8 | Acetonitrile | 13 ppm |

| · **PAC-2:** | | |
|---|---|---|
| 75-05-8 | Acetonitrile | 50 ppm |

| · **PAC-3:** | | |
|---|---|---|
| 75-05-8 | Acetonitrile | 150 ppm |

· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

## 7 Handling and storage

· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:** Store in accordance with information listed on the product insert.
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.
· **Information about storage in one common storage facility:** Not required
· **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

· **Control parameters**

| · **Components with limit values that require monitoring at the workplace:** | |
|---|---|
| **75-05-8 Acetonitrile** | |
| PEL | Long-term value: 70 mg/m³, 40 ppm |

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| | |
|---|---|
| REL | Long-term value: 34 mg/m³, 20 ppm |
| TLV | Long-term value: 33 mg/m³, 20 ppm<br>Skin, A4 |

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Appropriate engineering controls** No further data; see section 7.
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**
· **General Information**

| | |
|---|---|
| · **Physical state** | Liquid |
| · **Color:** | According to product specification |
| · **Odor:** | Characteristic |
| · **Structural Formula** | C H3 - C N |
| · **Molecular Weight** | 41.05 g/mol |

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| | |
|---|---|
| · **Storage Buffer** | |
| · **Odor threshold:** | Not determined |
| · **Formulation** | |
| · **Melting point/Melting range:** | -46 °C (-50.8 °F) |
| · **Boiling point/Boiling range:** | Undetermined |
| · **Flammability:** | Highly flammable. |
| · **Explosion limits:** | |
| · **Lower:** | 4.4 Vol % |
| · **Upper:** | 16 Vol % |
| · **Flash point:** | 2 °C (35.6 °F) |
| · **Auto igniting:** | 525 °C (977 °F) |
| · **Decomposition temperature:** | Not determined |
| · **pH-value:** | Not determined |
| · **Viscosity:** | |
| · **Kinematic:** | Not determined |
| · **SOLUBILITY** | |
| · **Dynamic:** | Not determined |
| · **Solubility in / Miscibility with** | |
| · **Water at 25 °C (77 °F):** | 1000 g/l |
| · **Partition coefficient (n-octanol/water):** | Not determined |
| · **Vapor pressure at 20 °C (68 °F):** | 98.64 hPa (74 mm Hg) |
| · **Vapor pressure at 50 °C (122 °F):** | 330 hPa (247.5 mm Hg) |
| · **Density at 20 °C (68 °F):** | 0.79 g/cm³ (6.59255 lbs/gal) |
| · **Relative density** | Not determined |
| · **Vapor density** | Not determined |
| · **Particle characteristics** | Not applicable |

| | |
|---|---|
| · **Other information** | |
| · **Appearance:** | |
| · **Form:** | Fluid |
| · **Important information on protection of health and environment, and on safety.** | |
| · **Ignition temperature:** | Product is not selfigniting. |
| · **Danger of explosion:** | Product is not explosive. However, formation of explosive air/vapor mixtures are possible. |
| · **Solvent content:** | |
| · **VOC content:** | 0.00 %<br>0.0 g/l / 0.00 lb/gal |
| · **Change in condition** | |
| · **Evaporation rate** | Not determined |

## 10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.

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· **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

| · **LD/LC50 values that are relevant for classification:** | | |
|---|---|---|
| **ATE (Acute Toxicity Estimate)** | | |
| Oral | LD50 | 623 mg/kg (mouse) |
| Dermal | LD50 | 1,515 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 11.1 mg/l |

| **75-05-8 Acetonitrile** | | |
|---|---|---|
| Oral | LD50 | 617 mg/kg (mouse)<br>(OECD Test Guideline 401) |
| Dermal | LD50 | 1,500 mg/kg (rabbit)<br>(Expert Judgement)<br>Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) |
| Inhalative | LC50/4 h | 6.022 mg/l (mouse)<br>(OECD Test Guideline 403) |

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** Irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant
· **Interactive effects** No interactive effects between components are known.

· **Carcinogenic categories**

| · **IARC (International Agency for Research on Cancer)** |
|---|
| None of the ingredients is listed. |

| · **NTP (National Toxicology Program)** |
|---|
| None of the ingredients is listed. |

| · **OSHA-Ca (Occupational Safety & Health Administration)** |
|---|
| None of the ingredients is listed. |

· **Alternative sources for toxicological information**
No non-standard sources for toxicological information where used.

## 12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.

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· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **Other adverse effects**
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

## 13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

| | |
|---|---|
| · **UN-Number** | |
| · **DOT, IMDG, IATA** | UN1648 |
| · **UN proper shipping name** | |
| · **DOT, IATA** | Acetonitrile solution |
| · **IMDG** | ACETONITRILE solution |
| · **Transport hazard class(es)** | |
| · **DOT** |   |
| · **Class** | 3 Flammable liquids |
| · **Label** | 3 |
| · **IMDG, IATA** |   |
| · **Class** | 3 Flammable liquids |
| · **Label** | 3 |
| · **Packing group** | |
| · **DOT, IMDG, IATA** | II |
| · **Environmental hazards:** | Not applicable |

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| | |
|---|---|
| · **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** | Not applicable |
| · **Transport/Additional information:** | |
| · **DOT** | |
| · **Quantity limitations** | On passenger aircraft/rail: 5 L<br>On cargo aircraft only: 60 L |
| · **IMDG** | |
| · **Limited quantities (LQ)** | 1L |
| · **Excepted quantities (EQ)** | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · **IATA** | |
| · **Remarks:** | When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.<br>Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity. |
| · **Special precautions for user** | Warning: Flammable liquids |
| · **Hazard identification number (Kemler code):** | 33 |
| · **EMS Number:** | F-E,S-D |
| · **Stowage Category** | B |
| · **Stowage Code** | SW2 Clear of living quarters. |
| · **UN "Model Regulation":** | UN 1648 ACETONITRILE SOLUTION, 3, II |

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

| | |
|---|---|
| 75-05-8 | Acetonitrile |

· **TSCA (Toxic Substances Control Act):**

| | | |
|---|---|---|
| 75-05-8 | Acetonitrile | ACTIVE |

· **Hazardous Air Pollutants**

| | |
|---|---|
| 75-05-8 | Acetonitrile |

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

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· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

| | | |
|---|---|---|
| 75-05-8 | Acetonitrile | CBD, D |

· **TLV (Threshold Limit Value)**

| | | |
|---|---|---|
| 75-05-8 | Acetonitrile | A4 |

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

· **Department issuing SDS:** Environment protection department.
· **Contact:** -
· **Date of preparation** 11/10/2026
· **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flammable liquids 2: Flammable liquids – Category 2
Acute toxicity - oral 4: Acute toxicity – Category 4
Eye irritation 2A: Serious eye damage/eye irritation – Category 2A