



TCI EUROPE N.V.

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 1

Revision date: 10/03/2018

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

1.1 Product identifiers

Product name: Methyl Malonyl Chloride
Product code: M2315

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

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V.
Boerenveldseweg 6
Haven 1063
B-2070 Zwijndrecht
Telephone: +32(0)3 735 07 00
E-mail: sales-eu@tcichemicals.com

1.4 Emergency telephone number: +32(0)70 245 245

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

| | |
|--|-------------|
| Corrosive to metals | Category 1 |
| Skin corrosion/irritation | Category 1B |
| Serious eye damage/eye irritation | Category 1 |

2.2 Label elements

Pictograms or hazard symbols



Signal word

Danger

Hazard statements

H290-May be corrosive to metals.
H314-Causes severe skin burns and eye damage.

Precautionary statements

P260-Do not breathe dusts or mists.
P280-Wear protective gloves, protective clothing, face protection.
P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.
P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.
P304+P340+P310-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
P305+P351+P338+P310-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable
vPvB: Not applicable

SECTION 3: Composition/information on ingredients

3.1 Substances

| | |
|--------------------------|---|
| Components: | Methyl Malonyl Chloride |
| Percent: | >97.0%(GC)(T) |
| CAS RN: | 37517-81-0 |
| EC-No: | 253-540-6 |
| Synonyms: | (Chloroformyl)acetic Acid Methyl Ester , 3-Chloro-3-oxopropionic Acid Methyl Ester , Methyl (Chloroformyl)acetate , Methyl 3-Chloro-3-oxopropionate |
| Chemical Formula: | C ₄ H ₅ ClO ₃ |

SECTION 4: First aid measures

4.1 Description of first aid measures

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| Inhalation: | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. |
| Skin contact: | Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician. |
| Eye contact: | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. |
| Ingestion: | Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. |
| Protection of first-aiders: | A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles. |

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

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| Suitable extinguishing media: | Dry chemical, carbon dioxide. |
| Unsuitable extinguishing media: | Water |

5.2 Special hazards arising from the substance or mixture

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Carbon dioxide, Carbon monoxide, Hydrogen chloride

5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc

6.2 Environmental precautions

Prevent product from entering drains

6.3 Methods and materials for containment and cleaning up

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Do not allow contact with water. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

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| 7.1 Precautions for safe handling | Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing. May develop pressure. Open carefully. Use corrosive resistant equipment. |
| 7.2 Conditions for safe storage, including any incompatibilities | Keep container tightly closed. Store in a refrigerator. Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Heat-sensitive, Moisture-sensitive |
| 7.3 Specific end use(s) | No further relevant information available. |

SECTION 8: Exposure controls/personal protection

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|----------------------------------|---|
| 8.1 Control parameters | No data available |
| 8.2 Exposure controls | Install a closed system or local exhaust. Also install safety shower and eye bath. |
| Respiratory protection: | Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations. |
| Hand protection: | Impervious gloves. |
| Eye protection: | Safety goggles. A face-shield, if the situation requires. |
| Skin and body protection: | Impervious protective clothing. Protective boots, if the situation requires. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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|---|---------------------------|
| Physical state (20°C): | Liquid |
| Form: | Clear |
| Colour: | Very pale yellow - Yellow |
| Odour: | No data available |
| pH: | No data available |
| Melting point/freezing point: | No data available |
| Boiling point/range: | 59°C /1.6kPa |
| Flash point: | 80°C |
| Evaporation rate(Butyl Acetate=1): | No data available |
| Flammability(solid, gas): | No data available |
| Flammability or explosive limits: | |
| Lower: | No data available |
| Upper: | No data available |
| Vapour pressure: | No data available. |
| Vapour density: | No data available |
| Relative density: | 1.28 |
| Solubility(ies): | |
| [Water] | No data available |
| [Other solvents] | No data available |
| Partition coefficient: | No data available |
| n-octanol/water: | |
| Autoignition temperature: | No data available |
| Decomposition temperature: | No data available |
| Dynamic Viscosity: | No data available |
| Kinematic viscosity: | No data available |

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| 9.2 Other safety information | No data available |
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SECTION 10: Stability and reactivity

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| 10.1 Reactivity | No data available |
| 10.2 Chemical stability | Stable under proper conditions. |
| 10.3 Possibility of hazardous reactions | Decomposes in contact with water and liberates toxic gases. |
| 10.4 Conditions to avoid | Open flame, Moisture |
| 10.5 Incompatible materials | Oxidizing agents, Bases, Water |
| 10.6 Hazardous decomposition products | Carbon dioxide, Carbon monoxide, Hydrogen chloride |

SECTION 11: Toxicological information

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|--|-------------------|
| 11.1 Information on toxicological effects | |
| Acute Toxicity: | No data available |
| Skin corrosion/irritation: | No data available |
| Serious eye damage/irritation: | No data available |
| Respiratory or skin sensitization: | No data available |
| Germ cell mutagenicity: | No data available |
| Carcinogenicity: | |
| IARC = | No data available |
| NTP = | No data available |
| Reproductive toxicity: | No data available |
| STOT-single exposure: | No data available |
| STOT-repeated exposure: | No data available |
| Aspiration hazard: | No data available |

SECTION 12: Ecological information

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|--|-------------------|
| 12.1 Toxicity | |
| Fish: | No data available |
| Crustacea: | No data available |
| Algae: | No data available |
| 12.2 Persistence and degradability | No data available |
| 12.3 Bioaccumulative potential | No data available |
| 12.4 Mobility in soil | |
| Log Pow: | No data available |
| Soil adsorption (Koc): | No data available |
| Henry's Law (PaM³/mol): | No data available |
| 12.5 Results of PBT and vPvB assessment | |
| PBT: | Not applicable |
| vPvB: | Not applicable |
| 12.6 Other adverse effects | No data available |

SECTION 13: Disposal considerations

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| 13.1 Waste treatment methods |
| Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance. |

SECTION 14: Transport information

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| 14.1 UN number | 3265 |
| 14.2 UN proper shipping name | |
| ADR/RID | Corrosive liquid, acidic, organic, n.o.s |
| IMDG/IMO | Corrosive liquid, acidic, organic, n.o.s |
| ICAO/IATA | Corrosive liquid, acidic, organic, n.o.s |
| 14.3 Transport hazard class(es) | |
| ADR/RID | 8: Corrosive |
| IMDG/IMO | 8: Corrosive |
| ICAO/IATA | 8: Corrosive |
| 14.4 Packaging group | |
| ADR/RID | II |
| IMDG/IMO | II |
| ICAO/IATA | II |
| 14.5 Environmental hazards | |
| Marine pollutant | - |
| 14.6 Special precautions for user | No data available |

SECTION 15: Regulatory information

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| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006 | Not listed |
| 15.2 Chemical safety assessment | A chemical safety assessment has not been carried out. |

SECTION 16: Other information

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|---------------------|-----------------|
| Prepared by: | TCI EUROPE N.V. |
| Issue date: | 10/03/2018 |

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet