

# Safety Data Sheet

#90028839 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

| PRODUCT                                                                     | CAS<br>NUMBER          | FORMULA         | VERSION   | REVISION<br>DATE       |
|-----------------------------------------------------------------------------|------------------------|-----------------|-----------|------------------------|
| <b>Methoxyacetyl chloride (stabilised<br/>with ca 0.3% magnesium oxide)</b> | <b>38870-<br/>89-2</b> | <b>C3H5ClO2</b> | <b>10</b> | <b>28 Jul<br/>2026</b> |

## SECTION 1

### Identification

|                                               |                                                                                                                                  |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Product name</b>                           | Methoxyacetyl chloride (stabilised with ca 0.3% magnesium oxide)                                                                 |
| <b>CAS number</b>                             | 38870-89-2                                                                                                                       |
| <b>Chemical formula</b>                       | C3H5ClO2                                                                                                                         |
| <b>Molecular weight</b>                       | 108.52                                                                                                                           |
| <b>SMILES</b>                                 | COCC(=O)Cl                                                                                                                       |
| <b>EC / EINECS number</b>                     | 254-169-2                                                                                                                        |
| <b>Recommended use &amp;<br/>restrictions</b> | For research purposes only                                                                                                       |
| <b>Emergency telephone</b>                    | <b>0344 892 0111</b> — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE)) |

## SECTION 2

## Hazard identification

**DANGER**

| CODE                                                   | HAZARD STATEMENT                                                                                                                 |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>H226</b>                                            | Flammable liquid and vapour                                                                                                      |
| <b>H290</b>                                            | May be corrosive to metals                                                                                                       |
| <b>H314 (sub cat. 1B)</b>                              | Causes severe skin burns and eye damage                                                                                          |
| <b>H331</b>                                            | Toxic if inhaled                                                                                                                 |
| <b>H335</b>                                            | May cause respiratory irritation                                                                                                 |
| CODE                                                   | PRECAUTIONARY STATEMENT                                                                                                          |
| <b>P210</b>                                            | Keep away from heat/sparks/open flames/hot surfaces - No smoking                                                                 |
| <b>P260</b>                                            | Do not breathe dust/fume/gas/mist/vapours/spray                                                                                  |
| <b>P280</b>                                            | Wear protective gloves/protective clothing/eye protection/face protection                                                        |
| <b>P304+P340</b>                                       | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing                                  |
| <b>P305+P351+P338</b>                                  | IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing |
| <b>P406</b>                                            | Store in a corrosive resistant container with a resistant inner liner                                                            |
| <b>Other hazards (e.g. PBT / vPvB, not classified)</b> | This substance is not classified as PBT or vPvB according to current EU criteria.                                                |

## SECTION 3

## Composition / information on ingredients

|                                           |                                                                     |
|-------------------------------------------|---------------------------------------------------------------------|
| <b>Purity / concentration</b>             | Methoxyacetyl chloride (ca. 99.7°C)- H226, H290, H314B, H331, H335. |
| <b>Impurities / stabilising additives</b> | Magnesium oxide (ca 0.3%)                                           |

#### SECTION 4

### First-aid measures

|                                                   |                                                                                                                                                                                                                  |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                                 | Move affected person to fresh air, keep warm, maintain open airway, loosen tight clothing, administer oxygen if breathing is difficult. Get medical attention.                                                   |
| <b>Skin contact</b>                               | Rinse immediately with plenty of water for at least 15 minutes. Get medical attention for chemical burns.                                                                                                        |
| <b>Eye contact</b>                                | Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention.                                                                          |
| <b>Ingestion</b>                                  | Rinse mouth thoroughly with water. Give small glasses of water or milk to drink. Never induce vomiting. Place unconscious person in recovery position. Get medical attention if symptoms persist.                |
| <b>Symptoms / effects &amp; medical attention</b> | Severe irritation of nose/throat (inhalation), chemical burns in mouth/x/stomach (ingestion), severe skin burns/blistering (skin contact), serious eye damage/profuse watering (eye contact).<br>See Section 11. |

#### SECTION 5

### Fire-fighting measures

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Alcohol-resistant foam, carbon dioxide, dry powder. Avoid water jet.                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Unsuitable extinguishing media</b> | Water jet (spreads fire).                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Special hazards</b>                | Containers may burst violently when heated. Flammable liquid/vapour. Explosive mixtures with air. Fire-water run-off may create fire/explosion hazard. Severe corrosive hazard.<br>Carbon oxides<br>Hydrogen chloride gas<br>Phosgene<br>Combustible.<br>Vapours are heavier than air and may spread along floors.<br>Forms explosive mixtures with air at elevated temperatures.<br>Development of hazardous combustion gases or vapours possible in the event of fire. |
| <b>Advice for firefighters</b>        | Avoid breathing fire gases. Evacuate area. Cool containers with water spray. Use water spray to disperse vapours. Avoid aquatic discharge. Notify authorities if water pollution risk.                                                                                                                                                                                                                                                                                   |

## SECTION 6

### Accidental release measures

|                                           |                                                                                                                           |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions &amp; PPE</b>     | Wear protective clothing. Evacuate area. Avoid ignition sources. Use respiratory protection if ventilation is inadequate. |
| <b>Environmental precautions</b>          | Avoid discharge to aquatic environment. May affect water pH, harming aquatic organisms.                                   |
| <b>Containment &amp; clean-up methods</b> | Clear spills immediately. Dispose of waste safely. Eliminate ignition sources if safe. Use protective clothing.           |

*For specific precautions, see Section 8 and Section 13.*

## SECTION 7

### Handling & storage

|                                                        |                                                                                                                                         |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage temperature</b>                             | 2 to 8 °C                                                                                                                               |
| <b>Precautions for safe handling</b>                   | Keep away from heat, sparks, open flames. Ground/bond container. Use explosion-proof equipment. Avoid static discharges.                |
| <b>Conditions for safe storage (incompatibilities)</b> | Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Moisture sensitive. Store under inert gas. |

## SECTION 8

### Exposure controls / personal protection

|                                                 |                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Occupational exposure limits (OEL / WEL)</b> | Not specified                                                                                                                                                                                                                                                                                                               |
| <b>DNEC/PNEC data</b>                           | DNEC/PNEC data not available                                                                                                                                                                                                                                                                                                |
| <b>Eye / face protection</b>                    | Safety glasses<br>Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.                                                                                                                                                                                                  |
| <b>Skin / hand protection</b>                   | Recommended gloves: Viton rubber (fluor rubber), 0.7mm (480mins).                                                                                                                                                                                                                                                           |
| <b>Respiratory protection</b>                   | Full-face respirator<br>Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387. |

## SECTION 9

**Physical & chemical properties**

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| Density (g/mL)                     | 1.187 g/mL<br>DERIVED FROM: LITERATURE    |
| Flash point                        | 28 °C<br>DERIVED FROM: LITERATURE         |
| Acidity                            | Acid<br>DERIVED FROM: LITERATURE          |
| Appearance / physical state        | Liquid<br>DERIVED FROM: LITERATURE        |
| Colour                             | Not specified<br>DERIVED FROM: LITERATURE |
| Odour                              | Not known<br>DERIVED FROM: LITERATURE     |
| Melting / freezing point           | Not specified<br>DERIVED FROM: LITERATURE |
| Boiling point                      | 112-113°C<br>DERIVED FROM: LITERATURE     |
| Solubility (water)                 | Not specified<br>DERIVED FROM: LITERATURE |
| pH                                 | Not specified<br>DERIVED FROM: LITERATURE |
| Vapour pressure                    | Not specified<br>DERIVED FROM: LITERATURE |
| Partition coefficient (log Pow)    | Not specified<br>DERIVED FROM: LITERATURE |
| Auto-ignition / decomposition temp | Not specified<br>DERIVED FROM: LITERATURE |

## SECTION 10

**Stability & reactivity**

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| Chemical stability / reactivity  | Chemically stable under normal conditions                      |
| Conditions to avoid              | Heat, sparks, open flames, ignition sources, static discharges |
| Incompatible materials           | Water (reacts violently), strong oxidizers, strong bases       |
| Hazardous decomposition products | See section 5                                                  |

## SECTION 11

**Toxicological information**

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute toxicity (LD50 / LC50)</b>      | LD50 Oral - Rat - 2,465 mg/kg (External MSDS)<br>Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.<br>LC50 Inhalation - Rat - 4 h - 4.1 mg/l - vapour (External MSDS)<br>Symptoms: mucosal irritations, Cough, Shortness of breath, Inhalation may lead to the formation of oedemas in the respiratory tract., Possible damages:, damage of respiratory tract<br>LD50 Dermal - Rat - > 2,000 mg/kg (External MSDS) |
| <b>Skin corrosion / irritation</b>       | Causes severe skin burns                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Eye corrosion / irritation</b>        | Causes serious eye damage. Risk of blindness!<br>Possible lachrymator                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Respiratory / skin sensitisation</b>  | Not specified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Carcinogenicity</b>                   | Not specified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Mutagenicity</b>                      | <i>Not applicable</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Reproductive toxicity</b>             | <i>Not applicable</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>STOT (single / repeated exposure)</b> | May cause respiratory irritation                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Aspiration hazard</b>                 | Not specified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Endocrine disruptors</b>              | Not specified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## SECTION 12

**Ecological information**

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| <b>Aquatic toxicity</b>                | May affect aquatic pH, harming organisms |
| <b>Persistence &amp; degradability</b> | Not specified                            |
| <b>Bioaccumulative potential</b>       | Not specified                            |
| <b>Mobility in soil</b>                | Not specified                            |
| <b>PBT / vPvB assessment</b>           | Not classified as PBT/vPvB               |

## SECTION 13

**Disposal considerations**

|                                           |                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------|
| <b>Waste treatment / disposal methods</b> | Dispose of contents/container in accordance with national regulations |
|-------------------------------------------|-----------------------------------------------------------------------|

## SECTION 14

## Transport information

|                              |                                                                                                                                                             |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UN number                    | UN2920                                                                                                                                                      |
| Proper shipping name         | CORROSIVE LIQUID, FLAMMABLE, N.O.S                                                                                                                          |
| Class                        | 8 (3)                                                                                                                                                       |
| Packing group                | II                                                                                                                                                          |
| Transport category           | 2                                                                                                                                                           |
| Tunnel code                  | (D/E)                                                                                                                                                       |
| Packing instruction (ADR)    | P001                                                                                                                                                        |
| Packing instruction (IMDG)   | P001                                                                                                                                                        |
| Environmental hazards        | No                                                                                                                                                          |
| Special precautions for user | Emergency Action Code: 3W; EmS: F-E, S-C; Hazard Identification Number: 83<br>Personal protection standards: Eye- EN ISO 16321-1:2022, Respiratory EN 14387 |



## SECTION 15

## Regulatory information

|                                         |                       |
|-----------------------------------------|-----------------------|
| REACH code                              | Y110                  |
| UFI code                                | Not specified         |
| ECHA notification                       | <i>Not applicable</i> |
| Chemical safety assessment carried out? | <i>Not applicable</i> |

## SECTION 16

## Other information

|                                    |                       |
|------------------------------------|-----------------------|
| Revision notes / other information | <i>Not applicable</i> |
|------------------------------------|-----------------------|

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