1 Identification

· Product identifier
  · Trade name: Azoxymethane
  · Article number: 183971
  · CAS Number: 25843-45-2
  · EC number: 620-649-9
  · Molecular Formula C2 H6 N2 O
  · Molecular Weight 74.08
  · Application of the substance / the mixture For Research or Further Manufacturing Use.

· Details of the supplier of the safety data sheet
  · Manufacturer/Supplier: MP Biomedicals, LLC
    29525 Fountain Parkway
    Solon, OH 44139
    United States
    www.mpbio.com
  · Information department: Quality Control Department
  · Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2 Hazard(s) identification

· Classification of the substance or mixture

  GHS06 Skull and crossbones
  Acute Tox. 2 H300 Fatal if swallowed.

  GHS08 Health hazard
  Muta. 1B H340 May cause genetic defects.
  Carc. 1B H350 May cause cancer.
  Eye Irrit. 2B H320 Causes eye irritation.

· Label elements
  · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).
  · Hazard pictograms

    GHS06 GHS08

· Signal word Danger

· Hazard-determining components of labeling:
  Azoxymethane

(Contd. on page 2)
Trade name: Azoxymethane

· Hazard statements
  Fatal if swallowed.
  Causes eye irritation.
  May cause genetic defects.
  May cause cancer.

· Precautionary statements
  Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  Wash thoroughly after handling.
  Do not eat, drink or smoke when using this product.
  Wear protective gloves/protective clothing/eye protection/face protection.
  If swallowed: Immediately call a poison center/doctor.
  Specific treatment (see on this label).
  Rinse mouth.
  If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  IF exposed or concerned: Get medical advice/attention.
  If eye irritation persists: Get medical advice/attention.
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:
  · NFPA ratings (scale 0 - 4)
    Health = 4
    Fire = 0
    Reactivity = 0
  · HMIS-ratings (scale 0 - 4)
    HEALTH
    Health = *4
    FIRE
    Fire = 0
    REACTIVITY
    Reactivity = 0
  · Other hazards
    · Results of PBT and vPvB assessment
      · PBT: Not applicable.
      · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Substances
· CAS No. Description
  25843-45-2 Azoxymethane
· Identification number(s)
· EC number: 620-649-9

4 First-aid measures

· Description of first aid measures
· General information:
  Consult your Doctor. Show the safety data sheet to the Doctor. Away from the dangerous area.
  In case of irregular breathing or respiratory arrest provide artificial respiration.
· After inhalation: If breathed in, supply fresh air. If not breathing, give artificial respiration. Consult a Doctor.
Trade name: Azoxymethane

After skin contact: Wash off with soap and plenty of water. Consult a Doctor.
After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing: Do not induce vomiting; immediately call for medical help.
Information for 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: Use fire fighting measures that suit the environment.
Special hazards arising from the substance or mixture: No further relevant information available.
Advice for firefighters
Protective equipment: No special measures required.

6 Accidental release measures
Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.
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).
Pick up mechanically, dispose contaminated material as waste according to Section 13.
Ensure adequate ventilation.
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.
Protective Action Criteria for Chemicals
PAC-1: Substance is not listed.
PAC-2: Substance is not listed.
PAC-3: Substance is not listed.

7 Handling and storage
Handling:
Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace. Avoid direct contact with skin and eyes.
Open and handle receptacle with care.
Information about protection against explosions and fires: Keep respiratory protective device available.
Conditions for safe storage, including any incompatibilities
Storage: -20°C
Trade name: Azoxymethane

- Requirements to be met by storerooms and receptacles: No special requirements.
- Further information about storage conditions:
- Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see Section 7.
- Control parameters
- Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- 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.
    Store protective clothing separately.
    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.
  - 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
- Appearance:
  Form: Liquid
Trade name: Azoxymethane

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>According to product specification</td>
</tr>
<tr>
<td>Odor</td>
<td>Indeterminate</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH-value</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range</td>
<td>Undetermined.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability (solid, gaseous)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto igniting</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Danger of explosion</td>
<td>See section 10</td>
</tr>
<tr>
<td>Explosion limits</td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Upper</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Density</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Dynamic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>VOC content</td>
<td>0.00 %</td>
</tr>
<tr>
<td>Other information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

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.
  - Avoid contact with acids. Contact liberates a toxic gas.
- Incompatible materials: No further relevant information available.
- 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 | 5 mg/kg |

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Oral LD50 5 mg/kg (ATE)

- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.

- Additional toxicological information:
- Carcinogenic categories

  - IARC (International Agency for Research on Cancer)
    Substance is not listed.
  - NTP (National Toxicology Program)
    Substance is not listed.
  - OSHA-Ca (Occupational Safety & Health Administration)
    Substance is not listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability No further relevant information available.
  - Behavior in environmental systems:
    - Bioaccumulative potential No further relevant information available.
    - Mobility in soil No further relevant information available.
  - Additional ecological information:

  - General notes:
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation:
    Can not be disposed together with household garbage. Do not allow product to reach sewage system.
### 14 Transport information

<table>
<thead>
<tr>
<th><strong>UN-Number</strong></th>
<th>UN2810</th>
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<tbody>
<tr>
<td><strong>DOT, ADR, IMDG, IATA</strong></td>
<td>Toxic, liquids, organic, n.o.s. (Azoxymethane)</td>
</tr>
<tr>
<td><strong>DOT</strong></td>
<td>DOT 2810 TOXIC LIQUID, ORGANIC, N.O.S. (Azoxymethane)</td>
</tr>
<tr>
<td><strong>ADR, IMDG, IATA</strong></td>
<td>IMO 6.1 Toxic substances</td>
</tr>
</tbody>
</table>

- **Transport hazard class(es)**
  - **DOT**
    - Class: 6.1 Toxic substances
    - Label: 6.1
  - **ADR, IMDG, IATA**
    - Class: 6.1 Toxic substances
    - Label: 6.1

- **Packing group**
  - **DOT, ADR, IMDG, IATA**: III

- **Environmental hazards:**
  - Not applicable.

- **Special precautions for user**
  - Warning: Toxic substances
  - Hazard Identification number (Kemler code): 60
  - EMS Number: F-A,S-A
  - Stowage Category: A
  - Stowage Code: SW2 Clear of living quarters.

- **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: 60 L
      - On cargo aircraft only: 220 L
  - **ADR**
    - Excepted quantities (EQ): Code: E1
      - Maximum net quantity per inner packaging: 30 ml
      - Maximum net quantity per outer packaging: 1000 ml

*(Contd. on page 8)*
Trade name: Azoxymethane

5.2 IMDG
- Limited quantities (LQ) 5L
- Excepted quantities (EQ) Code: E1
  Maximum net quantity per inner packaging: 30 ml
  Maximum net quantity per outer packaging: 1000 ml

- UN "Model Regulation":
  UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (AZOXYMETHANE), 6.1, III

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara
    - Section 355 (extremely hazardous substances):
      Substance is not listed.
    - Section 313 (Specific toxic chemical listings):
      Substance is not listed.
    - TSCA (Toxic Substances Control Act):
      Substance is not listed.
  - Hazardous Air Pollutants
    Substance is not listed.
  - Proposition 65
    - Chemicals known to cause cancer:
      Substance is not listed.
    - Chemicals known to cause reproductive toxicity for females:
      Substance is not listed.
    - Chemicals known to cause reproductive toxicity for males:
      Substance is not listed.
    - Chemicals known to cause developmental toxicity:
      Substance is not listed.
  - Carcinogenic categories
    - EPA (Environmental Protection Agency)
      Substance is not listed.
    - TLV (Threshold Limit Value established by ACGIH)
      Substance is not listed.
    - NIOSH-Ca (National Institute for Occupational Safety and Health)
      Substance is not listed.
  - GHS label elements
    The substance is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms
    GHS06  GHS08

(Contd. on page 9)
Trade name: Azoxymethane

- **Signal word** Danger
- **Hazard-determining components of labeling:**
  Azoxymethane
- **Hazard statements**
  Fatal if swallowed.
  Causes eye irritation.
  May cause genetic defects.
  May cause cancer.
- **Precautionary statements**
  Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  Wash thoroughly after handling.
  Do not eat, drink or smoke when using this product.
  Wear protective gloves/protective clothing/eye protection/face protection.
  If swallowed: Immediately call a poison center/doctor.
  Specific treatment (see on this label).
  Rinse mouth.
  If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
  Continue rinsing.
  IF exposed or concerned: Get medical advice/attention.
  If eye irritation persists: Get medical advice/attention.
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.
- **National regulations:**
- **Information about limitation of use:**
  Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### Other information

- **Department issuing SDS:** Quality Control Dept.
- **Contact:**
- **Date of preparation / last revision** 12/23/2020 /
- **Abbreviations and acronyms:**
  Acute Tox. 2: Acute toxicity – Category 2
  Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
  Muta. 1B: Germ cell mutagenicity – Category 1B
  Carc. 1B: Carcinogenicity – Category 1B