

SAFETY DATA SHEET

**Magnesium sulfate solution****34276-1L**

Version 1.2

Revision Date 07/15/2024

Print Date 09/23/2025

SECTION 1. IDENTIFICATION

Product name : Magnesium sulfate solution

Number : 000000021968

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Solstice Advanced Materials US, Inc.
115 Tabor Road
Morris Plains, NJ 07950-2546

For more information call : 1-800-368-0050
+1-231-726-3171 (Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid

Color : colourless

Odor : odourless

Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

Precautionary statements : **Prevention:**
Use personal protective equipment as required.

Hazards not otherwise : Repeated or prolonged exposure may irritate eyes, skin and

Magnesium sulfate solution**34276-1L**

Version 1.2

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classified

respiratory system.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTSFormula : MgSO₄

Chemical nature : Mixture

| Chemical name | CAS-No. | Concentration |
|-------------------|-----------|---------------------|
| Water | 7732-18-5 | >=95.00 - <=99.00 % |
| Magnesium sulfate | 7487-88-9 | >=1.00 - <=5.00 % |

Note : WHMIS hazardous composition: No ingredients are hazardous according to the CPR criteria.

SECTION 4. FIRST AID MEASURES

- General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
- Inhalation : Remove to fresh air. If respiratory problems develop, obtain medical attention.
- Skin contact : Wash off with soap and plenty of water. If skin irritation persists, call a physician.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
- Ingestion : Rinse mouth with water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious

Magnesium sulfate solution**34276-1L**

Version 1.2

Revision Date 07/15/2024

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person.

Notes to physician

Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry powder
- Specific hazards during firefighting : Fire may cause evolution of:
Magnesium oxide
Sulphur oxides
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Wear personal protective equipment. Unprotected persons must be kept away.
Ensure adequate ventilation.
Avoid contact with skin, eyes and clothing.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material.
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations.

Magnesium sulfate solution**34276-1L**

Version 1.2

Revision Date 07/15/2024

Print Date 09/23/2025

SECTION 7. HANDLING AND STORAGE**Handling**

Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Conditions for safe storage, including any incompatibilities : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Avoid breathing dust or spray mist.
Avoid contact with skin, eyes and clothing.

Engineering measures : Ensure adequate ventilation, especially in confined areas.

Eye protection : Safety glasses with side-shields

Hand protection : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.

Skin and body protection : Protective suit

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene measures : General industrial hygiene practice.

Exposure Guidelines

Contains no substances with occupational exposure limit values.

Magnesium sulfate solution**34276-1L**

Version 1.2

Revision Date 07/15/2024

Print Date 09/23/2025

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------|---------------------------|
| Physical state | : liquid |
| Color | : colourless |
| Odor | : odourless |
| Odor threshold | : Note: No data available |
| pH | : Note: No data available |
| Melting point/ range | : Note: No data available |
| Boiling point/boiling range | : Note: No data available |
| Flash point | : Note: Not applicable |
| Evaporation rate | : Note: No data available |
| Flammability | : Not applicable |
| Lower explosion limit | : Note: Not applicable |
| Upper explosion limit | : Note: Not applicable |
| Vapor pressure | : Note: No data available |
| Vapor density | : Note: No data available |
| Density | : Note: No data available |

Magnesium sulfate solution**34276-1L**

Version 1.2

Revision Date 07/15/2024

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| | |
|---|---|
| Water solubility | : Note: completely miscible |
| Partition coefficient: n-octanol/water | : Note: No data available |
| Ignition temperature | : Note: No data available |
| Decomposition temperature | : Note: No decomposition if stored and applied as directed. |
| Viscosity, dynamic | : Note: No data available |
| Viscosity, kinematic | : Note: No data available |
| Oxidizing properties | : The substance or mixture is not classified as oxidizing. |
| Molecular weight | : 120.37 g/mol |

SECTION 10. STABILITY AND REACTIVITY

| | |
|---------------------------------------|---|
| Reactivity | : Not classified as a reactivity hazard. |
| Chemical stability | : Stable under recommended storage conditions. |
| Possibility of hazardous reactions | : No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | : None known. |
| Incompatible materials | : None known. |
| Hazardous decomposition products | : Fire may cause evolution of: Magnesium oxide Sulfur oxides (SO _x) |

Magnesium sulfate solution**34276-1L**

Version 1.2

Revision Date 07/15/2024

Print Date 09/23/2025

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Note: No data available

Acute inhalation toxicity : Note: No data available

Acute dermal toxicity : Note: No data available

Skin irritation : Note: No data available

Eye irritation : Note: No data available

Sensitisation : Note: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish : Note: No data available

Toxicity to daphnia and other aquatic invertebrates : Note: No data available

Toxicity to algae : Note: No data available

Elimination information (persistence and degradability)

Biodegradability : Note: The methods for determining biodegradability are not applicable to inorganic substances.

Magnesium sulfate solution**34276-1L**

Version 1.2

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Print Date 09/23/2025

Further information on ecology

Additional ecological information : We have no quantitative data concerning the ecological effects of this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Not dangerous goods

TDG Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

SECTION 15. REGULATORY INFORMATION**Inventories**

USA. List of Active Substances on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory, as amended : On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended : On the inventory, or in compliance with the inventory

Canada. Domestic Substances List (DSL), as amended : All components of this product are on the Canadian DSL

Magnesium sulfate solution**34276-1L**

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Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals : On the inventory, or in compliance with the inventory
Inventory (KECI)Philippines. Inventory of : On the inventory, or in compliance with the inventory
Chemicals and Chemical
Substances (PICCS)China. Inventory of Existing : On the inventory, or in compliance with the inventory
Chemical Substances
(IECSC)New Zealand. Inventory of : On the inventory, or in compliance with the inventory
Chemicals (NZIoC), as
published by ERMA New
ZealandTaiwan Chemical : On the inventory, or in compliance with the inventory
Substance Inventory (TCSI)**National regulatory information****WHMIS**

WHMIS Ingredient Disclosure List IDL: No component is listed on the WHMIS ingredients disclosure list.

NPRI

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

SECTION 16. OTHER INFORMATION

| | HMIS III | NFPA |
|-----------------|-----------------|-------------|
| Health hazard | : 1 | 1 |
| Flammability | : 0 | 0 |
| Physical Hazard | : 0 | |
| Instability | : | 0 |

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Magnesium sulfate solution**34276-1L**

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Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Energy and Sustainability Solutions Product Stewardship Group Product Stewardship Group