# 1. IDENTIFICATION

Product Code: M2272  
Product Name: N-METHYL-N-NITROSO-P-TOLUENESULFONAMIDE

**Other means of identification**

**Synonyms:**
- Benzenesulfonamide, N,4-dimethyl-N-nitroso-Diazald
- Diazale
- N-Nitroso-N-methyl-4-tolylsulfonamide
- MethylNitroso-p-toluenesulfonamide
- N-Methyl-N-nitroso-p-toluenesulfonamide
- p-TolylsulfonylmethylNitrosamide
- Toluene-p-sulfonylmethylNitrosamide

**CAS #:** 80-11-5  
**RTECS #:** XT5950000  
**CI#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** In lab preparation of Diazomethane.  
**Uses advised against:** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
14422 South San Pedro St.  
Gardena, CA  90248  
(310) 516-8000

**Order Online At:** [https://www.spectrumchemical.com](https://www.spectrumchemical.com)  
**Emergency telephone number:** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
Ibad Tirmiz (East Coast)

# 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

<table>
<thead>
<tr>
<th>Skin corrosion/irritation</th>
<th>Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Self-reactive substances and mixtures</td>
<td>Type C</td>
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</tbody>
</table>

**Label elements**

**Product code:** M2272  
**Product name:** N-METHYL-N-NITROSO-P-TOLUENE SULFONAMIDE
**Danger**

**Hazard statements**
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause respiratory irritation
Heating may cause a fire

**Hazards not otherwise classified (HNOC)**
Not Applicable

**Other hazards**
May be harmful in contact with skin

**Precautionary Statements - Prevention**
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves
Wear eye/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep/Store away from clothing and other combustible materials
Keep only in original container
Keep cool

**Precautionary Statements - Response**
In case of fire: Use CO2, dry chemical, or foam to extinguish.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water
Take off contaminated clothing and wash it before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Precautionary Statements - Storage**
Store in a well-ventilated place. Keep container tightly closed
Store locked up
Store at temperatures not exceeding 8 °C/46.4 °F. Keep cool
Store away from other materials

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

---

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
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<tbody>
<tr>
<td>N-Methyl-N-nitroso-p-toluenesulfonamide</td>
<td>80-11-5</td>
<td>100</td>
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</tbody>
</table>

**Product code:** M2272

**Product name:**
N-METHYL-N-NITROSO-P-TOLUENE SULFONAMIDE
4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms
- Causes eye irritation
- Moderately irritating to the eyes
- Redness and pain of the eyes
- Contact causes skin irritation
- Moderate skin irritation
- May cause itching and redness of the skin
- Irritating to respiratory system
- May cause coughing and shortness of breath
- Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea
- May cause an allergic skin reaction

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray mist or foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical


Specific hazards: May be combustible at high temperatures. Heating may cause fire.

Special Protective Actions for Firefighters

Product code: M2272
Product name: N-METHYL-N-NITROSO-P-TOLUENE SULFONAMIDE
Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid dust formation. Remove all sources of ignition.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent from entering into soil, ditches, sewers, waterways, and/or ground water.

Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up: Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities


Incompatible Materials: Strong acids
Strong bases
Strong oxidizing agents
Strong reducing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Product code: M2272
Product name: N-METHYL-N-NITROSO-P-TOLUENE SULFONAMIDE
<table>
<thead>
<tr>
<th>Components</th>
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<th>ACGIH</th>
<th>AIHA WEEL</th>
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**Canada**

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<td>80-11-5</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### Appropriate engineering controls

**Engineering measures to reduce exposure:**

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

**Eye protection:**

Goggles

**Skin and body protection:**

Long sleeved clothing

Chemical resistant apron

Gloves

**Respiratory protection:**

Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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<td>Molecular/Formula weight: 214.24</td>
<td>Flammability: No information available</td>
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<td>Autoignition Temperature (°C/°F): No information available</td>
<td>Lower Explosion Limit (%): No information available.</td>
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**Product code:** M2272

**Product name:** N-METHYL-N-NITROSO-P-TOLUENE SULFONAMIDE
10. STABILITY AND REACTIVITY

Reactivity
No information available

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur


Incompatible Materials: Strong acids
Strong bases
Strong oxidizing agents
Strong reducing agents


Other Information
Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Product code: M2272
Product name:
N-METHYL-N-NITROSO-P-TOLUENE SULFONAMIDE
Ingestion. Inhalation.

**Acute Toxicity**

**Component Information**

<table>
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<td>LD50/dermal/rabbit =</td>
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<tr>
<td>LD50/dermal/rat =</td>
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<tr>
<td>LC50/inhalation/rat =</td>
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<tr>
<td>LC50/inhalation/mouse =</td>
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<tr>
<td>Other LD50 or LC50 information =</td>
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**Product Information**

<table>
<thead>
<tr>
<th>Product Information</th>
<th>Value</th>
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<tbody>
<tr>
<td>LD50/oral/rat =</td>
<td>2700 mg/kg</td>
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<tr>
<td>LD50/oral/mouse =</td>
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<td>LD50/dermal/rabbit =</td>
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<tr>
<td>LD50/dermal/rat =</td>
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<td>LC50/inhalation/mouse =</td>
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<td>LC50/Inhalation/mouse =</td>
<td>VALUE - Gas = No information available</td>
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<td>LC50/Inhalation/mouse =</td>
<td>VALUE - Dust/Mist = No information available</td>
</tr>
</tbody>
</table>

**Symptoms**

**Skin Contact:** Causes skin irritation. Moderately irritating to the skin.

**Eye Contact:** Causes serious eye irritation. Moderately irritating to the eyes.

**Inhalation** Irritating to respiratory system. Symptoms may include coughing and shortness of breath.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** Skin: Sensitizer. May cause allergic skin reaction (allergic contact dermatitis). Repeated or prolonged skin contact may cause skin sensitization.

**Product code:** M2272

**Product name:** N-METHYL-N-NITROSO-P-TOLUENE SULFONAMIDE
**Sensitization:**
May cause sensitization by skin contact.

**Mutagenic Effects:**
No information available

**Carcinogenic effects:**
Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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<tbody>
<tr>
<td>N-Methyl-N-nitroso-p-toluene sulfonamide</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
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</tbody>
</table>

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity**
No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

**Specific Target Organ Toxicity**

STOT - single exposure: Respiratory system.
STOT - repeated exposure: No information available.
Target Organs: No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal
### Components

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>N-Methyl-N-nitroso-p-toluenesulfonamide</td>
<td>80-11-5</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### 14. TRANSPORT INFORMATION

**DOT**
- **UN-No:** UN3224
- **Proper Shipping Name:** Self-reactive solid type C
- **Hazard Class:** 4.1
- **Subsidiary Class:** No information available
- **Packing group:** II
- **Emergency Response Guide Number:** 149
- **Marine Pollutant:** No data available
- **DOT RQ (lbs):** No information available
- **Special Provisions:** No Information available
- **Symbol(s):** No information available
- **Description:** UN3224, Self-reactive solid type C, 4.1

**TDG (Canada)**
- **UN-No:** UN3224
- **Proper Shipping Name:** Self-reactive solid type C
- **Hazard Class:** 4.1
- **Subsidiary Risk:** No information available
- **Packing Group:** II
- **Marine Pollutant:** No Information available
- **Description:** UN3224, Self-reactive solid type C, 4.1, II

**ADR**
- **UN-No:** UN3224
- **Proper Shipping Name:** Self-reactive solid type C
- **Hazard Class:** 4.1
- **Packing Group:** II
- **Subsidiary Risk:** No information available
- **Special Provisions:** 194, 274
- **Description:** UN3224, Self-reactive solid type C, 4.1

**IMO / IMDG**
- **UN-No:** UN3224
- **Proper Shipping Name:** Self-reactive solid type C
- **Hazard Class:** 4.1
- **Subsidiary Risk:** No information available
- **Packing Group:** II
- **Marine Pollutant:** No information available
- **EMS:** F-J
- **Special Provisions:** 274
- **Description:** UN3224, Self-reactive solid type C (N-METHYL-N-NITROSO-P-TOLUENESULFONAMIDE), 4.1

**RID**
- **UN-No:** UN3224
- **Proper Shipping Name:** Self-reactive solid type C
- **Hazard Class:** 4.1
- **Subsidiary Risk:** No information available
- **Packing Group:** II

**Product code:** M2272
**Product name:** N-METHYL-N-NITROSO-P-TOLUENE SULFONAMIDE
Special Provisions
Description: UN3224, Self-reactive solid type C, 4.1

ICAO
UN-No: UN3224
Proper Shipping Name: Self-reactive solid type C
Hazard Class: 4.1
Subsidiary Risk: No information available
Packing Group: II
Description: UN3224, Self-reactive solid type C, 4.1
Special Provisions A20

IATA
UN-No: UN3224
Proper Shipping Name: Self-reactive solid type C
Hazard Class: 4.1
Subsidiary Risk: No information available
Packing Group: II
ERG Code: 3L
Special Provisions No information available
Description: UN3224, Self-reactive solid type C, 4.1

15. REGULATORY INFORMATION

International Inventories

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<td>Present KE-11559</td>
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<td>Present</td>
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<td>Present 201-252-6</td>
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</table>

U.S. Regulations


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
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<th>Carcinogen</th>
<th>Developmental Toxicity</th>
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CERCLA/SARA

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<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
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<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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U.S. TSCA

Product code: M2272
Product name: N-METHYL-N-NITROSO-P-TOLUENE SULFONAMIDE
Components | CAS-No. | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) - Health and Safety Reporting
---|---|---|---
N-Methyl-N-nitroso-p-toluenesulfonamide | 80-11-5 | Not Applicable | Not Applicable

**Canada**

**WHIMIS 2015 - GHS Classifications**

WHIMIS 2015 Hazard Classification Information:
The WHMIS 2015 classification of this product has not been validated or reviewed yet.

**Canada Hazardous Products Regulation**
This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR.

**WHMIS 1988 Hazard Class**
The classification of this product has not been validated yet.

**Canada Controlled Products Regulation:**
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

**Inventory**

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**Components | CAS-No. | CEPA Schedule I - Toxic Substances
---|---|---
N-Methyl-N-nitroso-p-toluenesulfonamide | 80-11-5 | Not listed

**Components | CAS-No. | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
---|---|---
N-Methyl-N-nitroso-p-toluenesulfonamide | 80-11-5 | Not listed

**EU Classification**

**EU GHS - SV - CLP 1272/2008**

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**EU - CLP (1272/2008)**

**R-phrase(s)**
Not determined

**S-phrase(s)**
one

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<th>Safety Phrases</th>
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The product is classified in accordance with Annex VI to Directive 67/548/EEC.

**Product code:** M2272

**Product name:**
N-METHYL-N-NITROSO-P-TOLUENE SULFONAMIDE
Indication of danger:
not determined

16. OTHER INFORMATION

Preparation Date: 4/5/2018
Revision Date: 4/5/2018
Prepared by: Sonia Owen

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End of Safety Data Sheet