1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers
   Product name: 2,2-Dimethyl-1,3-propanediol
   CAS-No.: 126-30-7

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Identified uses: Research and Development

1.3 Details of the supplier of the safety data sheet
   Company: GTI Laboratories Supplies
   5611 Northdale Street
   HOUSTON TX 77087
   Telephone: +1 804-240-4719

1.4 Emergency telephone number
   Emergency Phone #: (804) 240-4719

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
   GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
   - Serious eye damage (Category 1), H318
   For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements
   Pictogram

   Signal word: Danger
   Hazard statement(s):
   - H318 Causes serious eye damage.
   Precautionary statement(s):
   - P280 Wear protective gloves/eye protection/face protection.
   - P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continuerinsing.
   - P310 Immediately call a POISON CENTER or doctor/physician.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
   Synonyms: Neopentylglycol
              NPG Glycol
Formula : C$_5$H$_{12}$O$_2$
Molecular Weight : 104.15 g/mol
CAS-No. : 126-30-7
EC-No. : 204-781-0

Hazardous components

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,2-Dimethylpropane-1,3-diol</td>
<td>Eye Dam. 1; H318</td>
<td>90 - 100 %</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labeling (section 2.2) or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.
7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Hygroscopic

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses, use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves, must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber - Dermatril®
Minimum layer thickness: 0.11 mm
Break through time: 480 min

Splash contact
Material: Nitrile rubber - Dermatril®
Minimum layer thickness: 0.11 mm
Break through time: 480 min

Test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance
   Form: flakes
   Color: colorless

b) Odor
   sweet

c) Odor Threshold
   no data available

d) pH
   no data available

e) Melting point/freezing point
   Melting point/range: 123 - 127 °C (253 - 261 °F)

f) Initial boiling point and boiling range
   209 °C (408 °F) at 1,013 hPa (760 mmHg)

g) Flash point
   103 °C (217 °F) - closed cup

h) Evaporation rate
   no data available

i) Flammability (solid, gas)
   no data available

j) Upper/lower flammability or explosive limits
   Upper explosion limit: 18.8 % (V)
   Lower explosion limit: 1.37 % (V)

k) Vapor pressure
   < 1.1 hPa (< 0.8 mmHg) at 20 °C (68 °F)

l) Vapor density
   no data available

m) Relative density
   1.06 g/cm³ at 20 °C (68 °F)

n) Water solubility
   830 g/l at 20 °C (68 °F) - soluble

o) Partition coefficient: n-octanol/water
   log Pow: -0.15 at 25 °C (77 °F)

p) Auto-ignition temperature
   399 °C (750 °F) at 1,013.25 hPa (760.00 mmHg)

q) Decomposition temperature
   no data available

r) Viscosity
   no data available

s) Explosive properties
   no data available

t) Oxidizing properties
   no data available

9.2 Other safety information
   No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
   No data available

10.2 Chemical stability
   Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
   No data available

10.4 Conditions to avoid
   Avoid moisture.

10.5 Incompatible materials
   Strong oxidizing agents, acid chlorides, acid anhydrides
10.6 Hazardous decomposition products
Other decomposition products - No data available. In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - rat - male and female - > 6,400 mg/kg
(OECD Test Guideline 401)
Inhalation: no data available
Dermal: no data available

Skin corrosion/irritation
Skin - rabbit
Result: No skin irritation

Serious eye damage/eye irritation
Eyes - rabbit
Result: Risk of serious damage to eyes. - 24 h
(OECD Test Guideline 405)

Respiratory or skin sensitization
- mouse
Result: Does not cause skin sensitization.
(OECD Test Guideline 429)

Germ cell mutagenicity
Ames test
S. typhimurium
Result: negative

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: 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.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
Repeated dose toxicity - rat - male and female - Oral - No observed adverse effect level - 300 mg/kg
RTECS: TY5775000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

<table>
<thead>
<tr>
<th>Type of Test</th>
<th>Compound</th>
<th>Concentration</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity to fish static test</td>
<td>Oryzias latipes</td>
<td>&gt; 10,000 mg/l</td>
<td>48 h</td>
</tr>
<tr>
<td>Toxicity to daphnia and other aquatic invertebrates static test</td>
<td>Daphnia magna (Water flea)</td>
<td>&gt; 500 mg/l</td>
<td>48 h</td>
</tr>
<tr>
<td>Toxicity to algae static test</td>
<td>Desmodesmus subspicatus (green algae)</td>
<td>&gt; 500 mg/l</td>
<td>72 h</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

- **Biodegradability**
  - aerobic
  - Exposure time 28 d
  - Result: 70 - 80 % - Readily biodegradable.
  - (OECD Test Guideline 301B)

12.3 Bioaccumulative potential

- **Bioaccumulation**
  - Cyprinus carpio (Carp) - 42 d
  - 1 mg/l
  - Bioconcentration factor (BCF): < 9
  - (OECD Test Guideline 305C)

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

- **Product**
  - Contact a licensed professional waste disposal service to dispose of this material. Offer surplus and non-recyclable solutions to a licensed disposal company.

- **Contaminated packaging**
  - Dispose of as unused product.

14. TRANSPORT INFORMATION

- **UPS Domestic Ground Shipping**
  - Not dangerous goods

- **DHL Air IATA International Shipping**
  - Not dangerous goods

15. REGULATORY INFORMATION

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Revision Date</th>
</tr>
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<tbody>
<tr>
<td>126-30-7</td>
<td></td>
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</table>

New Jersey Right To Know Components

<table>
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<th>Revision Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>126-30-7</td>
<td></td>
</tr>
</tbody>
</table>

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Eye Dam. Serious eye damage
H318 Causes serious eye damage.

HMIS Rating
Health hazard: 2
Chronic Health Hazard: 1
Flammability: 1
Physical Hazard 0

NFPA Rating
Health hazard: 2
Fire Hazard: 1
Reactivity Hazard: 0

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. GTI Laboratories Supplies and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

Preparation Information
GTI Laboratories Supplies
Product Safety & Health