

## Material Safety Data Sheet Neopenthyl Glycol

### Section 1 - Product Identification

Synonyms : 2,2-Dimethyl-1,3-propanediol  
Molecular Weight : 104.15 g/mol  
Chemical Formula :  $C_5H_{12}O_2$   
Company Identification : Tradeasia International Pte. Limited  
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore  
Tel: +65-6227 6365  
Fax: +65-6225 6286  
Email: [contact@chemtradeasia.com](mailto:contact@chemtradeasia.com)

Recommended use of the chemical and restrictions on use:

The product is used as a laboratory chemical. Not for food, drug, pesticide or biocidal product use.

### Section 2 – Composition/Information on Ingredients

The product contains greater than 95 percent (%) Neopenthyl glycol

Chemical Name	EC/CAS No	Purity, %
Neopenthyl Glycol	204-781-0/126-30-7	min. 95.0

### Section 3 – Hazards Identification

#### 3.1 Classification of the substance or mixture

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

#### 3.2 Label elements

The product needs to be labelled with a danger sign.

#### 3.3 Other hazards

##### Potential health effects

##### Eye

Causes serious eye damage/irritation.

##### Skin

N.A

##### Ingestion

Harmful if swallowed

##### Inhalation

May cause respiratory irritation.

##### Chronic

N.A

### Section 4 – First-Aid Measures

#### 4.1. Description of first aid measures

##### Skin contact

First aid measures not required, but wash exposed skin with soap and water for hygienic reasons.

#### **Eye contact**

Important! Immediately rinse cautiously with tempered water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention

#### **Inhalation**

Remove to fresh air. Rinse mouth with water. If irritation persists get medical advice/attention.

#### **Ingestion**

Clean mouth with water and drink afterwards plenty of water. If a large quantity has been ingested or if you feel unwell, get medical advice/attention.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Eye contact: Causes severe irritation with flood of tears and pain and strong redness and swelling of the eye. Risk of damage to the conjunctiva and cornea.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

N.A.

### **Section 5 – Fire Fighting Measures**

#### **5.1. Suitable Extinguishing media**

All types of extinguishing media are suitable. Use fire extinguishing methods suitable to surrounding conditions.

#### **5.2. Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating and toxic gases and vapors; Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

#### **5.3. Special protective actions for fire-fighters**

Wear self-contained breathing apparatus and protective suit.

#### **5.4. Hazardous Combustion Products**

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

### **Section 6 – Accidental Release Measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear tightly sealed goggles, protective gloves and if dusty conditions dust filter mask (P2). Ensure adequate ventilation.

#### **6.2. Environmental precautions**

Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information.

#### **6.3. Methods and material for containment and cleaning up**

Cover with plastic sheet to prevent spreading. Take up mechanically, placing in appropriate containers for disposal. After cleaning, flush away traces with water.

### **Section 7 – Handling and Storage**

#### **7.1. Precautions for safe Handling**

Ensure good ventilation at the work station. Avoid contact with eyes. Wear tightly sealed goggles and protective gloves. Any unavoidable deposit of dust must be regularly removed.

#### **7.2. Conditions for safe storage, including any incompatibilities**

The product is: Hygroscopic. Keep container tightly closed. Keep in a dry place.

### **Section 8 – Exposure Controls/Personal Protection**

### 8.1. Control parameters

### 8.2. Appropriate engineering controls

Eyewash stations. Ensure adequate ventilation.

### 8.3. Individual protection measures, such as personal protective equipment (PPE)

#### Respiratory protection

None under normal use conditions. Provide suction extractors if dust is formed or use dust filter mask (P2)

#### Eyes and hands protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Wear protective gloves. PPE - Glove material: Nitrile rubber, NBR, Chloroprene rubber, CR.

#### Body protection

Wear suitable coveralls to prevent exposure to the skin.

## Section 9 – Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Appearance: White solid

Odour: Slight odour

Odour threshold: N.A.

pH: No information available

Melting point: 129°C

Boiling point: 209°C

Flash point: N.A

Evaporation rate: N.A

Flammability:

Upper/lower flammability or explosive limits:

Upper explosive limits 11.4%

Lower explosive limits 1.1%

Vapour pressure: <0.001 kPA 25°C

Vapour density: N.A

Relative density: 1.04

Solubility in water: 820g/L

Partition coefficient: n-octanol/water: 0.1

Auto-ignition temperature: 399°C

Decomposition temperature: No information available

Viscosity: N.A.

Explosive properties: Not explosive

Oxidizing properties: Not oxidising

## Section 10 – Stability and Reactivity

### 10.1. Reactivity

Reacts with inorganic acids and carboxylic acids to form esters. Converts to aldehydes or acids by oxidizing agents. May initiate the polymerization of isocyanates and epoxides.

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

None under normal processing

### 10.4. Conditions to avoid:

Avoid dust deposition

### 10.5. Incompatible materials

None known

### 10.6. Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

## Section 11 – Toxicological Information

### Information on toxicological effects

#### LD50/LC50:

Oral, rat: LD50 > 6400mg/kg

#### Acute toxicity

N.A.

#### Skin corrosion / irritation

Not a skin sensitizer

#### Serious eye damage/ irritation

Risk of serious damage to eyes.

#### Respiratory or skin sensitization

Non-irritating to the skin

#### Germcell mutagenicity

Not mutagenic

#### Carcinogenicity

N.A.

#### Reproductive toxicity

N.A.

#### STOT-single exposure

N.A.

#### STOT-repeated exposure

N.A.

#### Aspiration Hazard

N.A.

#### Potential health effects

RECS: N.A.

## Section 12 – Ecological Information

### 12.1. Toxicity

Low toxicity to aquatic organisms

### 12.2. Persistence and degradability

Readily biodegradable

### 12.3. Bioaccumulative potential

N.A.

### 12.4. Mobility in soil

The product is not expected to adsorb to a high degree to suspended solids and sediment based upon the log Koc which indicates a moderate to high mobility in soil.

Will unlikely be mobile in the environment due to its low water solubility

#### 12.5. Other adverse effects

N.A

### Section 13 – Disposal Considerations

#### 13.1. Disposal methods

##### Product

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

##### Contaminated Packaging

Thoroughly emptied and clean packaging may be recycled

### Section 14 – Transport Information

14.1. UN number: N.A

14.2. UN proper shipping name: N.A

14.3. Transport of hazard classes: N.A

14.4. Packing group: N.A

14.5. Environmental hazards: N.A.

14.6. Special precautions for user: N.A

14.7. Incompatible materials: N.A.

### Section 15 – Regulatory Information

#### 15.1. Safety, health and environmental regulations for the substance/mixture

##### Notification status:

U.S. EPA TSCA Inventory	On the inventory, or in compliance with the inventory
Canadian DSL	On the inventory, or in compliance with the inventory
EINECS	On the inventory, or in compliance with the inventory
South Korea	On the inventory, or in compliance with the inventory
Japanese MITI	On the inventory, or in compliance with the inventory

Ensure all national/local regulations are observed.

### Section 16: Additional Information

#### 16.1. Mainly changes made to the previous version of this Material Safety Data Sheet (MSDS):

N.A.

#### 16.2. List of abbreviation and acronyms used in this MSDS

SDS: Safety Data Sheets

Index N°: atomic number of the element most characteristic of the properties of the substance

CAS No: Chemical Abstracts Service number

EC No: EINECS Number: European Inventory of Existing Commercial Substances

Repr. Cat. 2: Substance presumed human reproductive toxicant

Acute Oral Cat. 5: Substance which is of relatively low acute oral toxicity.

GHS: Globally Harmonised System of Classification and Labelling

LD<sub>50</sub>: Median Lethal Dose

**LC<sub>50</sub>:** Lethal Concentration, 50%

**N.A.:** Not Applicable

**Japanese MITI:** Japanese Ministry of International Trade and Industry

**EC<sub>50</sub>:** Half maximal effective concentration

**UN:** United Nations

**U.S. EPA TSCA Inventory:** Inventory of the chemical substances manufactured or processed in the United States according to Toxic Substances Control Act compiled and published under the authority of the Environmental Protection Agency

**Canadian DSL:** Canadian Domestic Substances List

#### **16.5. Disclaimer of Liability**

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