# Chemical Safety Data Sheet MSDS / SDS

# Neopentyl glycol diglycidyl ether

Revision Date:2024-12-21 Revision Number:1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product identifier**

Product name	: Neopentyl glycol diglycidyl ether				
CBnumber	: CB9243448				
CAS	: 17557-23-2				
EINECS Number	: 241-536-7				
Synonyms	: neopentyl,NEOPENTYL GLYCOL DIGLYCIDYL ETHER				
Relevant identified uses of the substance or mixture and uses advised against					
Relevant identified uses	: For R&D use only. Not for medicinal, household or other use.				
Uses advised against	: none				
Company Identification					
Company	: Chemicalbook				
Address	: Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing				
Telephone	: 400-158-6606				

# SECTION 2: Hazards identification

#### Classification of the substance or mixture

Skin irritation, Category 2 Skin sensitization, Category 1

#### Label elements

#### Pictogram(s)

Signal word

Warning

#### Hazard statement(s)

H315 Causes skin irritation

H317 May cause an allergic skin reaction

#### Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Prevention

P264 Wash ... thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

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P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

#### Response

P302+P352 IF ON SKIN: Wash with plenty of water/...

P321 Specific treatment (see ... on this label).

P332+P317 If skin irritation occurs: Get medical help.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P317 If skin irritation or rash occurs: Get medical help.

#### Storage

none

#### Disposal

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

#### Other hazards

no data available

### SECTION 3: Composition/information on ingredients

#### Substance

Product name	: Neopentyl glycol diglycidyl ether
Synonyms	: neopentyl,NEOPENTYL GLYCOL DIGLYCIDYL ETHER
CAS	: 17557-23-2
EC number	: 241-536-7
MF	: C11H20O4
MW	: 216.27

### SECTION 4: First aid measures

#### Description of first aid measures

#### lf inhaled

Fresh air, rest.

#### Following skin contact

Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention .

#### Following eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

#### **Following ingestion**

Rinse mouth. Give one or two glasses of water to drink.

#### Most important symptoms and effects, both acute and delayed

no data available

#### Indication of any immediate medical attention and special treatment needed

no data available

# **SECTION 5: Firefighting measures**

#### **Extinguishing media**

Fires involving this chemical should be controlled with a dry chemical, carbon dioxide, or Halon extinguisher. (NTP, 1992)

#### **Specific Hazards Arising from the Chemical**

It is combustible. (NTP, 1992)

#### Advice for firefighters

Use powder, AFFF, foam, carbon dioxide.

#### **NFPA 704**



HEALTH	2	Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury (e.g. <u>diethyl</u> <u>ether</u> , ammonium phosphate, iodine)	
FIRE	1	Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur. Includes some finely divided suspended solids that do not require heating before ignition can occur. Flash point at or above 93.3 °C (200 °F). (e.g. mineral oil, ammonia)	
REACT	0	Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, <u>N2</u> )	
SPEC. HAZ.			

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Collect leaking and spilled liquid in sealable containers as far as possible. Wash away remainder with plenty of water.

#### **Environmental precautions**

Collect leaking and spilled liquid in sealable containers as far as possible. Wash away remainder with plenty of water.

#### Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-

proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

# SECTION 7: Handling and storage

#### Precautions for safe handling

NO open flames. Above 88°C use a closed system and ventilation. Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

#### Conditions for safe storage, including any incompatibilities

Separated from strong oxidants. Keep in the dark.

### SECTION 8: Exposure controls/personal protection

#### **Control parameters**

**Occupational Exposure limit values** 

no data available

#### Biological limit values

no data available

#### **Exposure controls**

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the riskelimination area.

#### Individual protection measures

Eye/face protection Wear face shield. Skin protection Protective gloves. Protective clothing. Respiratory protection Use ventilation. Thermal hazards no data available

# SECTION 9: Physical and chemical properties

#### Information on basic physicochemical properties

Physical state	PHYSICAL DESCRIPTION: Clear liquid. (NTP, 1992)
Colour	no data available
Odour	no data available

Melting point/freezing point	264°C(dec.)(lit.)
Boiling point or initial boiling point and	103-107°C/1mmHg(lit.)
boiling range	
Flammability	Combustible.
Lower and upper explosion	no data available
limit/flammability limit	
Flash point	113°C
Auto-ignition temperature	no data available
Decomposition temperature	no data available
рН	no data available
Kinematic viscosity	no data available
Solubility	5 to 10 mg/mL at 68.9° F (NTP, 1992)
Partition coefficient n-octanol/water	no data available
Vapour pressure	1.37E-07mmHg at 25°C
Density and/or relative density	1.04g/mLat 25°C(lit.)
Relative vapour density	>1 (vs air)
Particle characteristics	no data available

# SECTION 10: Stability and reactivity

#### Reactivity

The substance can presumably form explosive peroxides. Reacts with strong oxidants.

#### **Chemical stability**

no data available

#### Possibility of hazardous reactions

NEOPENTYL GLYCOL DIGLYCIDYL ETHER is a ether-epoxide derivative. The ether being relatively unreactive. Flammable and/or toxic gases are generated by the combination of alcohols with alkali metals, nitrides, and strong reducing agents. They react with oxoacids and carboxylic acids to form esters plus water. Oxidizing agents convert alcohols to aldehydes or ketones.

#### Conditions to avoid

no data available

#### Incompatible materials

no data available

#### Hazardous decomposition products

no data available

# SECTION 11: Toxicological information

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

#### Skin corrosion/irritation

no data available

#### Serious eye damage/irritation

no data available

#### Respiratory or skin sensitization

no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

no data available

#### **Reproductive toxicity**

no data available

#### STOT-single exposure

The substance is irritating to the eyes and skin.

#### STOT-repeated exposure

Repeated or prolonged contact may cause skin sensitization.

#### Aspiration hazard

No indication can be given about the rate at which a harmful concentration of this substance in the air is reached on evaporation at 20°C.

# SECTION 12: Ecological information

#### Toxicity

Toxicity to fish: no data available Toxicity to daphnia and other aquatic invertebrates: no data available Toxicity to algae: no data available Toxicity to microorganisms: no data available

#### Persistence and degradability

no data available

#### **Bioaccumulative potential**

no data available

#### Mobility in soil

no data available

#### Other adverse effects

no data available

### SECTION 13: Disposal considerations

#### **Disposal methods**

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### **Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

### **SECTION 14: Transport information**

#### **UN Number**

ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

#### **UN Proper Shipping Name**

ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

#### Transport hazard class(es)

ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

#### Packing group, if applicable

ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

#### **Environmental hazards**

ADR/RID: No IMDG: No IATA: No

#### Special precautions for user

no data available

#### Transport in bulk according to IMO instruments

no data available

### **SECTION 15: Regulatory information**

#### Safety, health and environmental regulations specific for the product in question

European Inventory of Existing Commercial Chemical Substances (EINECS) Listed. **EC** Inventory Listed. United States Toxic Substances Control Act (TSCA) Inventory Listed. China Catalog of Hazardous chemicals 2015 Not Listed. New Zealand Inventory of Chemicals (NZIoC) Listed. PICCS Listed. **Vietnam National Chemical Inventory** Listed. IECSC Listed. Korea Existing Chemicals List (KECL) Listed.

### **SECTION 16: Other information**

#### Abbreviations and acronyms

CAS: Chemical Abstracts Service ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulation concerning the International Carriage of Dangerous Goods by Rail IMDG: International Maritime Dangerous Goods IATA: International Air Transportation Association TWA: Time Weighted Average STEL: Short term exposure limit LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

#### References

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?

pageID=0&request\_locale=en

CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

ECHA - European Chemicals Agency, website: https://echa.europa.eu/

#### **Other Information**

Explosive limits are unknown in the literature. Check for peroxides prior to distillation; eliminate if found.

**Disclaimer:** 

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.