

SAFETY DATA SHEET



Neopentyl glycol slurry 90 %
10490

Version / Revision 3.01
Supersedes Version 3.00***

Revision Date 15-Dec-2020
Issuing date 15-Dec-2020

SECTION 1: Identification

1.1. Product identifier

Identification of the
substance/preparation

Neopentyl glycol slurry 90 %

Chemical Name 2,2-Dimethylpropane-1,3-diol
CAS-No 126-30-7

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance /
Preparation Intermediate
Monomer
Uses advised against None

1.3. Details of the supplier of the safety data sheet

Supplier **OQ Chemicals Corporation**
15375 Memorial Drive
West Memorial Place I
Suite 300
Houston, TX 77079
USA
Phone +1 346 378 7300

Product Information Product Stewardship
FAX: +49 (0)208 693 2053
email: sc.psq@oq.com

1.4. Emergency telephone number

Emergency telephone number NCEC +1 202 464 2554
available 24/7

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This substance is classified in accordance with paragraph (d) of §1910.1200 (GHS-US classification).

Serious eye damage/eye irritation Category 1, H318

OSHA Specified Hazards Not applicable.

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2.2. Label elements

Labeling according to §1910.1200 (GHS-US labeling).

Hazard symbol(s)



Signal word

Danger

Hazard statements

H318: Causes serious eye damage.

Precautionary statements

Prevention

P280: Wear eye protection/face protection.

Response

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor.

2.3. Other hazards

Caution Hot!

Contact with product at elevated temperatures can result in thermal burns

Components of the product may be absorbed into the body by inhalation and ingestion

SECTION 3: Composition / information on ingredients

3.1. Substances

Component	CAS-No	Concentration (%)
2,2-Dimethylpropane-1,3-diol	126-30-7	~ 90,0

Remarks

Aqueous solution.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Keep at rest. Aerate with fresh air. When symptoms persist or in all cases of doubt seek medical advice.

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Skin

Contact with product at elevated temperatures can result in thermal burns. Wash off immediately with plenty of water. Immediate medical attention is required.

Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion

Call a physician immediately. Do not induce vomiting without medical advice.

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

Main symptoms

cough.

Special hazard

Lung irritation, Contact with product at elevated temperatures can result in thermal burns.

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

General advice

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Treat symptomatically. If ingested, irrigate the stomach using activated charcoal.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

foam, dry chemical, carbon dioxide (CO₂), water spray

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

carbon monoxide (CO)

carbon dioxide (CO₂)

Combustion gases of organic materials must in principle be graded as inhalation poisons

Vapours are heavier than air and may spread along floors

5.3. Advice for firefighters

Special protective equipment for firefighters

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

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Precautions for firefighting

Cool containers / tanks with water spray. Dike and collect water used to fight fire. Keep people away from and upwind of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.
For emergency responders: Personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

6.3. Methods and material for containment and cleaning up

Methods for containment

Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

Methods for cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

6.4. Reference to other sections

For personal protective equipment see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not handle hot or molten material without appropriate protective equipment. Do not exceed recommended process temperatures to minimize release of decomposition products. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms.

Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Advice on the protection of the environment

See Section 8: Environmental exposure controls.

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Incompatible products

strong oxidizing agents

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material.

Technical measures/Storage conditions

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Protect from moisture. Keep at temperatures between 63 and 80 °C (145 and 165 °F).

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Exposure limits United States of America

No exposure limits established regarding ACGIH, OSHA Z-1 and OSHA Z-2.

8.2. Exposure controls

Appropriate Engineering controls

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

Individual protection measures, such as personal protective equipment

General industrial hygiene practice

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Eye protection

Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

Hand protection

Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

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Suitable material

Heat resistant gloves

Skin and body protection

Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

Respiratory protection

Respirator with filter for organic vapour. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Equipment should conform to NIOSH.

Thermal Hazard

Heat only in areas with appropriate exhaust ventilation. When handling hot material, use heat resistant gloves.

Environmental exposure controls

If possible use in closed systems. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Hot liquid
Colour	colourless
Odour	sweet
Odour threshold	No data available
pH	7 (100 g/l in water @ 20 °C (68 °F)) neutral
Melting point/range	approx. 95 °F (35 °C)
Boiling point/range	407 °F (208,5 °C) @ 1 atm (101,3 kPa) (100 % Neopentyl glycol)***
Method	DIN 53171****
Flash point	225 °F (107 °C) (100 % Neopentyl glycol)***
Method	closed cup
Evaporation rate	No data available
Flammability (solid, gas)	Does not apply, the substance is a liquid
Lower explosion limit	1,1 Vol % (100 % Neopentyl glycol)***
Upper explosion limit	11,4 Vol % (100 % Neopentyl glycol)***

Vapour pressure

Values [hPa]	Values [kPa]	Values [atm]	@ °C	@ °F	Method	
0,03***	0,003***	< 0,001	20	68	OECD 104***	(100 % Neopentyl glycol)***
6,9	0,69	0,007	90	194	OECD 104***	(100 % Neopentyl glycol)***
88	8,8	0,087	140	284	OECD 104***	(100 % Neopentyl glycol)***

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Vapour density No data available

Relative density

Values	@ °C	@ °F	Method
0,971	50	122	DIN 51757

Solubility 830 g/l @ 68 °F (20 °C), in water, (100 % Neopentyl glycol)***

log Pow 0 @ 25 °C (77 °F) OECD 107 (100 % Neopentyl glycol)***

Autoignition temperature 707 °F (375 °C) (100 % Neopentyl glycol)***

Decomposition temperature No data available

Viscosity 30 mPa*s @ 122 °F (50 °C)

Method dynamic, DIN 51562

9.2. Other information

Molecular weight 104,15

Molecular formula C5 H12 O2

log Koc 0,019 @ 25°C (77 °F) (100 % Neopentyl glycol)***

Minimum ignition energy 150 mJ < E min. < 260 mJ with inductivity

Oxidizing properties Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties

Explosive properties Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties

SECTION 10: Stability and Reactivity

10.1. Reactivity

The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

10.5. Incompatible materials

strong oxidizing agents.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure Ingestion, Skin contact, Inhalation, Eye contact

2,2-Dimethylpropane-1,3-diol, CAS: 126-30-7

Main symptoms

cough.

Target Organ Systemic Toxicant - Single exposure

Based on available data, the classification criteria are not met for:
STOT SE

Target Organ Systemic Toxicant - Repeated exposure

Based on available data, the classification criteria are not met for:
STOT RE

Acute toxicity				
2,2-Dimethylpropane-1,3-diol (126-30-7)				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	> 6400 mg/kg	rat, male/female	OECD 401
Oral	LD50	6920 mg/kg	rat, male/female	OECD 401
Inhalative	LC0	140 mg/m ³ (8 h)***	rat, male/female	OECD 403
Dermal	LD50	> 4000 mg/kg	guinea pig	OECD 402

2,2-Dimethylpropane-1,3-diol, CAS: 126-30-7

Assessment

Based on available data, the classification criteria are not met for:

Acute oral toxicity

Acute dermal toxicity

Acute inhalation toxicity

Irritation and corrosion				
2,2-Dimethylpropane-1,3-diol (126-30-7)				
Target Organ Effects	Species	Result	Method	
Skin	rabbit	Mild skin irritation	OECD 404	4h
Eyes	rabbit	severe irritation	OECD 405	

2,2-Dimethylpropane-1,3-diol, CAS: 126-30-7

Assessment

The available data lead to the classification given in section 2

Based on available data, the classification criteria are not met for:
skin irritation/corrosion

Sensitization				
2,2-Dimethylpropane-1,3-diol (126-30-7)				
Target Organ Effects	Species	Evaluation	Method	
Skin	mouse	not sensitizing	OECD 429	

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2,2-Dimethylpropane-1,3-diol, CAS: 126-30-7

Assessment

Based on available data, the classification criteria are not met for:

Skin sensitization

For respiratory sensitization, no data are available

Subacute, subchronic and prolonged toxicity

2,2-Dimethylpropane-1,3-diol (126-30-7)

Type	Dose	Species	Method	
Subchronic toxicity	NOAEL: 1000 mg/kg/d***	rat, male/female	OECD 408	Oral
Subacute toxicity	NOAEL: 300 mg/kg/d***	rat, male***	OECD 422***	Inhalation Oral***

2,2-Dimethylpropane-1,3-diol, CAS: 126-30-7

Assessment

Based on available data, the classification criteria are not met for:

STOT RE

Carcinogenicity, Mutagenicity, Reproductive toxicity

2,2-Dimethylpropane-1,3-diol (126-30-7)

Type	Dose	Species	Evaluation	Method	
Mutagenicity		Salmonella typhimurium	negative	OECD 471 (Ames)	In vitro study
Mutagenicity		CHO (Chinese Hamster Ovary) cells***	negative	OECD 476 (Mammalian Gene Mutation)	In vitro study
Mutagenicity		CHL	negative	Chromosomal Aberration	In vitro study
Reproductive toxicity***	NOAEL 1000 mg/kg/d	rat***		OECD 422, Oral	Reproduction / developmental Toxicity***
Developmental Toxicity***	NOAEL 1000 mg/kg/d	rat***		OECD 414	Maternal toxicity Developmental toxicity***

2,2-Dimethylpropane-1,3-diol, CAS: 126-30-7

CMR Classification

The available data on CMR properties are summarized in the table above. They do not indicate a classification into categories 1A or 1B

Evaluation

Did not show reprotoxic or mutagenic effects in animal experiments

In the absence of specific alerts no cancer testing is required

2,2-Dimethylpropane-1,3-diol, CAS: 126-30-7

Other adverse effects

Components of the product may be absorbed into the body by inhalation and ingestion.

Note

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Handle in accordance with good industrial hygiene and safety practice. Further details on substance data can be found in the registration dossier under the following link:
<http://echa.europa.eu/information-on-chemicals/registered-substances>.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity			
2,2-Dimethylpropane-1,3-diol (126-30-7)			
Species	Exposure time	Dose	Method
Daphnia magna (Water flea)	48h	EC50: > 500 mg/l	84/449/EEC C.2
Desmodesmus subspicatus	72h	EC20: > 500 mg/l	DIN 38412, part 9
Oryzias latipes (Medaka)	48h	LC50: > 10000 mg/l	JIS
Leuciscus idus (Golden orfe)	48h	LC0: 10000 mg/l	
Activated sludge (domestic)	24h	TTC: 2000 mg/l	ETAD Fermentation tube method

Long term toxicity				
2,2-Dimethylpropane-1,3-diol (126-30-7)				
Type	Species	Dose	Method	
Mortality	Daphnia magna (Water flea)	NOEC: > 1000 mg/l (21 d)		

12.2. Persistence and degradability

2,2-Dimethylpropane-1,3-diol, CAS: 126-30-7

Biodegradation

80-90 % (28*** d), activated sludge, domestic, aerobic, non-adapted, Readily biodegradable, OECD 301 B.

Abiotic Degradation		
2,2-Dimethylpropane-1,3-diol (126-30-7)		
Type	Result	Method
Hydrolysis	Half-life (DT50): t1/2 (pH 4): 1 yr @ 25°C	OECD 111
Hydrolysis	Half-life (DT50): t1/2 (pH 7): 1 yr @ 25°C	OECD 111
Hydrolysis	Half-life (DT50): t1/2 (pH 9): 1 yr @ 25°C	OECD 111
Photolysis	Photochemical reaction with OH Radicals Half-life (DT50): 1,851 d @ 25°C	SRC AOP v1.92

12.3. Bioaccumulative potential

2,2-Dimethylpropane-1,3-diol (126-30-7)

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Type	Result	Method
log Pow	0 @ 25 °C (77 °F)***	OECD 107***
BCF	< 9	OECD 305 C

12.4. Mobility in soil

2,2-Dimethylpropane-1,3-diol (126-30-7)		
Type	Result	Method
Distribution to environmental compartments	Air: 0,001 Soil: 0,0627 % Water: 99,9 % Sediment: 0,001%, Suspended sediment: < 0,001% Biota: < 0,001%***	Calculation according Mackay, Level I
Adsorption/Desorption	log koc: 0,019 @ 25 °C (77 °F)***	calculated***
Surface tension	72 mN/m (1 g/l @ 20°C (68°F))	OECD 115

12.5. Results of PBT and vPvB assessment

2,2-Dimethylpropane-1,3-diol, CAS: 126-30-7

PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

12.6. Other adverse effects

2,2-Dimethylpropane-1,3-diol, CAS: 126-30-7

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product Information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

SECTION 14: Transport information

Section 14.1 - 14.6

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D.O.T. (49CFR) Not restricted

ICAO-TI / IATA-DGR Not restricted

IMDG Not restricted

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Product name	2,2-Dimethylpropane-1,3-diol
Ship type	3
Pollution category	Z

SECTION 15: Regulatory information

Federal and State Regulations

Components of the product are listed in the quoted regulations. For details please refer to the regulations directly. This list is not exhaustive, please check for other applicable regulations.

Federal Regulations

This product is listed on the TSCA inventory

International Inventories

2,2-Dimethylpropane-1,3-diol, CAS: 126-30-7

- AICS (AU)
- DSL (CA)
- IECSC (CN)
- EC-No. 2047810 (EU)
- ENCS (2)-240 (JP)
- ISHL (2)-240 (JP)
- KECI KE-11811 (KR)
- INSQ (MX)
- PICCS (PH)
- TSCA (US)
- NZIoC (NZ)
- TCSI (TW)

SECTION 16: Other information

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Hazard Rating Systems

NFPA (National Fire Protection Association)

Health Hazard	1
Fire Hazard	1
Reactivity	0

HMIS (Hazardous Material Information System)

Health Hazard	1
Flammability	1
Physical Hazard	0

Training advice

For effective first-aid, special training / education is needed.

Sources of key data used to compile the datasheet

Information contained in this safety data sheet is based on OQ owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

Further information for the safety data sheet

Changes against the previous version are marked by ***. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the OQ homepage (www.chemicals.oq.com).

The use of a comma in section 3 and section 7 to 12 is the same as a period.

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End of Safety Data Sheet