SAFETY DATA SHEET



Revision date: 02-Sep-2022

Revision Number 5

1. IDENTIFICATION OF 1	THE MATERIAL AND SUPPLIER	
Product identifier		
Product Name	NEOPENTYL GLYCOL	
Product Code(s)	00000014779	
Other means of identification		
CAS No.	126-30-7	
Synonyms	2,2-Dimethyl-1,3-propanediol; Dimethylolpropane; Dimethyltrimethylene glycol.	
Recommended use of the chemi	cal and restrictions on use	
Recommended use	Chemical intermediate.	
Uses advised against	No information available.	
Details of the supplier of the safe	ety data sheet	
Supplier Ixom Operations Pty Ltd (Incorpora NZBN: 9429041465226 Address: 7 Mt Maunganui South New Zealand Telephone Number: +64 9 368 270 Facimile: +64 9 368 2710	00	
For further information, please of		
Contact Point	Product Safety Department	
Emergency telephone number		
Emergency Telephone	0 800 734 607 (ALL HOURS)	
Please ensure you refer to the limitations of	his Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.	
2. HAZARDS IDENTIFICATION		
Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.		
Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.		
GHS Classification		
SIGNAL WORD Warning		
Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2020		

Approval Number: HSR002503

Serious eye damage/eye irritation	Category 2

Label elements



Hazard statements H319 - Causes serious eye irritation

Precautionary Statements - Prevention

Wear eye/face protection Wash eyes thoroughly after handling. 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 **Precautionary Statements - Storage** No storage statements **Precautionary Statements - Disposal** Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Other hazards which do not result in classification

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS No.	Weight-%
2,2-Dimethyl-1,3-propanediol	126-30-7	95-100%

4. FIRST AID MEASURES

Description of first aid measures

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.	
Emergency telephone number	Poisons Information Center, New Zealand: 0800 764 766 Poisons Information Center, Australia: 13 11 26	
Inhalation	Remove to fresh air. Call a physician if symptoms occur.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water. Call a physician if symptoms occur.	
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention immediately if symptoms occur.	
Most important symptoms and effects, both acute and delayed		

Symptoms	Irritation. May cause redn	less and tearing of the eyes
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Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

5. FIRE FIGHTING MEASURES Suitable Extinguishing Media		
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam.	
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.	
Specific hazards arising from the chemical		
Specific hazards arising from the chemical	Combustible solid.	
Hazardous combustion products	Carbon oxides.	
Special protective actions for fire-fighters		
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin and eyes. Avoid breathing dust or spray mist. Avoid generation of dust. Do not touch or walk through spilled material. Evacuate personnel to safe areas. Use personal protective equipment as required. Wash thoroughly after handling.	
For emergency responders	Use personal protection recommended in Section 8.	
Environmental precautions		
Environmental precautions	See Section 12 for additional Ecological Information.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Use appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. After cleaning, flush away traces with water.	
Precautions to prevent secondary hazards		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Avoid contact with skin and eyes. Avoid breathing dust or spray mist. Use personal protection equipment. Wash thoroughly after handling.
Conditions for safe storage, includir	ng any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use.
Incompatible materials	Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for particulate(s):

Particulates not otherwise classified: 8hr WES-TWA 10 mg/m3 (inhalable dust) or 3 mg/m3 (respirable dust)

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Appropriate engineering controls

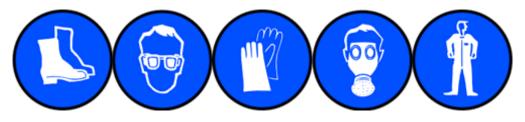
Engineering controls Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, DUST MASK.



Eye/face protection	Goggles.
Hand protection	Impervious gloves.
Skin and body protection	Boots. Wear suitable protective clothing. Overalls.
Respiratory protection	If determined by a risk assessment an inhalation risk exists, wear a dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
Environmental exposure controls	No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties Physical state Solid

Physical state	3010	
Appearance	Flakes	
Color	White	
Odor	Slight	
Odor threshold	No information available.	
Property	Values	Remarks • Method
рН	No data available	None known
Melting point / freezing point	123-129°C	None known
Boiling point / boiling range	209°C	None known
Flash point	103°C	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	18.8%	
limits		
Lower flammability or explosive	1.1%	
limits		
Vapor pressure	<1.1 hPa @20°C	None known
Vapor density	No data available	None known
Relative density	1.04-1.06	None known
Water solubility	Soluble in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	399°C	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

Other information

10. STABILITY AND REACTIVITY

Reactivity Reacts with inorganic acids and carboxylic acids to form esters. Converts to aldehydes or acids by oxidising agents. Hygroscopic. Chemical stability Stability Stable under normal conditions. Explosion data Under normal conditions. Under normal conditions.

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Possibility of hazardous reactions	
Possibility of hazardous reactions	May initiate the polymerization of isocyanates and epoxides. The product as suchdoes not cause dust explosions but fresh dust may.
Conditions to avoid	
Conditions to avoid	Dust formation.
Incompatible materials	
Incompatible materials	Oxidizing agents.
Hazardous decomposition products	

Hazardous decomposition products Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Information on likely routes of exposure

Product Information	No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs are:
Inhalation	May cause irritation.
Eye contact	Causes serious eye irritation.
Skin contact	May cause irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Symptoms	Irritation. May cause redness and tearing of the eyes.
Acute toxicity	

Numerical measures of toxicity

Oral LD50	Dermal LD50	Inhalation LC50
6400 mg/kg (Rat)	-	-

See section 16 for terms and abbreviations

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

Skin corrosion/irritation	Not classified.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	Not a skin sensitizer.

Germ cell mutagenicity	Not classified.		
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP. (OSHA - Occupational Safety and Health Administration) (IARC - International Agency for Research on Cancer) (NTP - National Toxicology Program).		
Reproductive toxicity	No information available.		
STOT - single exposure	No information available.		
STOT - repeated exposure	No information available.		
Aspiration hazard	No information available.		

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity	Keep out of waterways.
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Terrestrial ecotoxicity There is no data for this product.

Chemical name	Algae/aquatic plants	Fish	Crustacea
2,2-Dimethyl-1,3-propanediol	EC50: >500mg/L (72h, Desmodesmus subspicatus) EC50:	LC50: >1000mg/L (96h, Oryzias latipes)	EC50: >1000mg/L (24h, Daphnia magna)
	>1000mg/L (72h, Pseudokirchneriella subcapitata)		- <i>'</i>

Persistence and degradability		
Persistence and degradability	Readily biodegradable.	
Bioaccumulative potential		
Bioaccumulation	Material does not bioaccur	nulate.
<u>Mobility</u>		
Mobility in soil	No information available.	
Chemical na	ame	Partition coefficient
2,2-Dimethyl-1,3-p	ropanediol	-0.15
Other adverse effects		
Other adverse effects	No information available.	
13 DISPOSAL CONSIDER		

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused	Dispose of product in packaging/container in a way that is consistent with the Hazardous
products	Substances (Disposal) Notice 2017 and the Act, and Hazardous Substances (Amendments

and Revocations) Notice 2020. Treat the chemical using a method that changes the characteristics or composition of the chemical so that the chemical is no longer a hazardous chemical; or export the chemical from New Zealand as waste.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT	Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.
IATA	Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.
IMDG_	Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

New Zealand

National regulations	See section 8 for national exposure control parameters
Hadonal regulations	

International Inventories	
NZIoC	This material is listed on the New Zealand Inventory of Chemicals.
TSCA	Contact supplier for inventory compliance status.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	This material is listed on the Australian Inventory of Industrial Chemicals.

Legend:

NZIOC - New Zealand Inventory of Chemicals

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

16. OTHER INFORMATION

Supplier Safety Data Sheet 10/2019

Prepared By	This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).
Issuing Date:	02-Sep-2022
Reason(s) For Issue:	5 Yearly Revised Primary SDS

Revision Note:

The symbol (*) in the margin of this SDS indicates that this line has been revised.

	abbreviations and acronyms used in the sa				
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)		
Ceiling	Maximum limit value	*	Skin designation		
С	Carcinogen		-		
Key literature refe	erences and sources for data used to comp	ile the SDS			
•	Substances and Disease Registry (ATSDR)				
U.S. Environmenta	I Protection Agency ChemView Database				
	fety Authority (EFSA)				
	al Protection Agency)				
	uideline Level(s) (AEGL(s))				
	I Protection Agency Federal Insecticide, Fung		de Act		
	U.S. Environmental Protection Agency High Production Volume Chemicals				
Food Research Jo					
Hazardous Substa					
	rm Chemical Information Database (IUCLID)				
Japan GHS Classif					
Australian Industrial Chemicals Introduction Scheme (AICIS) NIOSH (National Institute for Occupational Safety and Health)					
National Library of Medicine's ChemID Plus (NLM CIP)					
National Library of Medicine's PubMed database (NLM PUBMED)					
National Toxicology Program (NTP)					
	emical Classification and Information Database	e (CCID)			
	Organization for Economic Co-operation and Development Environment, Health, and Safety Publications				
Organization for Economic Co-operation and Development High Production Volume Chemicals Program					

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

Disclaimer

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Ixom representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of

which is available upon request.

End of Safety Data Sheet