SAFETY DATA SHEET



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1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product identifier

DIPROPYLENE GLYCOL MONOBUTYL ETHER **Product Name**

000000050893 Product Code(s)

Other means of identification

CAS No. 29911-28-2

Synonyms DPNB; Dipropylene glycol butyl ether; Dipropylene glycol butoxy ether; 2-Propanol,

1-(2-butoxy-1-methylethoxy)-.

Recommended use of the chemical and restrictions on use

Recommended use Solvent.

Uses advised against No information available

Supplier

Ixom Operations Pty Ltd ABN: 51 600 546 512 Level 8, 1 Nicholson Street Melbourne 3000

Australia

Telephone Number: +61 3 9906 3000

Emergency telephone number

Emergency telephone number 1 800 033 111 (ALL HOURS)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

2. HAZARDS IDENTIFICATION

GHS Classification

Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

Not classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS)

Label elements

Hazard statements

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Other hazards which do not result in classification

May be harmful if swallowed

May be harmful if swallowed and enters airways

Poisons Schedule (SUSMP) None allocated

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS No.	Weight-%
Dipropylene glycol monobutyl ether	29911-28-2	>99%

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.

Remove to fresh air. Call a physician if symptoms occur. Inhalation

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash off immediately with soap and plenty of water. Call a physician if symptoms occur.

Clean mouth with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Get Ingestion

medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically. If ingested, following gastric emptying, either by induced vomiting or

gastric lavage with cuffed endotracheal tube in place, administer an aqueous slurry of

activated charcoal followed by a cathartic. No specific antidote.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media Water spray or fog. Dry chemical. Carbon dioxide (CO2).

Unsuitable extinguishing media High volume water jet.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

Combustible liquid.

Hazardous combustion products Carbon oxides.

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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.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin and eyes. Avoid breathing vapors or mists. Remove all sources of

ignition. Evacuate personnel to safe areas. Do not touch or walk through spilled material. 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 Keep out of drains, sewers, ditches and waterways. Stop leak if you can do it without risk.

Use a non-combustible material like vermiculite, sand or earth to soak up the product and Methods for cleaning up

place into a container for later disposal. For large amounts, pump off product.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes. Avoid breathing vapors or mists. Do not eat, drink or smoke when using this product. Keep away from open flames, hot surfaces and sources of ignition. Use personal protection equipment. When transferring into fixed site vessels, the vessel should be purged and inerted prior to transfer. May be transferred into air atmospheres if the temperature of the product and the ambient temperature within the shipping container are both at least 16.7°C less than the product's flash point. After loading. nitrogen blanketing is required if the contents of the transportation container could exceed a temperature of 16.7°C less than the product flash point during any subsequent transportation activities. If the product flash point is less than 16.7°C above either the ambient temperature of the transportation container or the storage temperature of the product, the container should be purged and inerted with nitrogen prior to loading and nitrogen blanketed after loading. Wash hands thoroughly after handling. Launder contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from **Storage Conditions**

> sources of heat or ignition. Keep away from water or moist air. Storage under nitrogen atmosphere is recommended to minimize possible formation of highly reactive peroxides.

Keep container closed when not in use.

Classified as a C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and

transport requirements.

Packaging materials Do not store in aluminium containers.

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Incompatible materials Strong acids. Strong bases. Strong oxidizing agents. Moisture.

Poisons Schedule (SUSMP) None allocated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits No value assigned for this specific material by Safe Work Australia.

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

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, SAFETY GLASSES, GLOVES.









Eye/face protection Glasses.

Skin and body protectionBoots. Wear suitable protective clothing. Overalls.

Hand protection Impervious gloves.

Respiratory protection If determined by a risk assessment an inhalation risk exists, wear an organic vapour

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 stateLiquidAppearanceClearColorColourlessOdorEther -like

Odor threshold No information available

Property Values Remarks • Method

pH 7 None known PH (as aqueous solution) No data available None known Melting point / freezing point < -75°C at 1013 hPa None known

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230°C at 1013 hPa Boiling point / boiling range None known ca. 100°C Seta Closed Cup Flash point **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known 20 vol%

Upper flammability or explosive

limits

Lower flammability or explosive 0.6 vol%

limits

<0.04 hPa at 20°C Vapor pressure None known Vapor density ca. 6.6 (air=1.0) None known 0.910 g/cm3 at 20°C Relative density None known Water solubility 40-45 g/L @ 25 °C None known Solubility(ies) No data available None known Partition coefficient log Pow = 1.523 at 25°C None known 194°C at 1013 hPa None known **Autoignition temperature Decomposition temperature** No data available None known Kinematic viscosity 4.85 mm2/s at 25°C None known **Dynamic viscosity** 4.35 mPa.s at 25°C None known

Other information

10. STABILITY AND REACTIVITY

Reactivity

Reactivity Hygroscopic: absorbs moisture or water from surrounding air. Reacts with air or water to

form peroxides.

Chemical stability

Stable under normal conditions. Stability

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

Glycol ethers can form peroxides on storage. Do not distil to dryness without first testing for Possibility of hazardous reactions

peroxide formation. Glycol ethers can react with light metals with the evolution of hydrogen.

Conditions to avoid

Conditions to avoid Heat, flames and sparks. Moisture. Contact with air/oxygen.

Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents. Moisture.

Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Aldehydes. Ketones. Organic acids.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

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Information on likely routes of exposure

No adverse health effects expected if the chemical is handled in accordance with this **Product Information**

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.

May cause irritation. Eye contact

Skin contact May cause irritation. Will have a degreasing action on the skin.

May cause gastrointestinal discomfort if consumed in large amounts. May be harmful if Ingestion

swallowed. May be harmful if swallowed and enters airways.

Symptoms No information available.

Numerical measures of toxicity - Product Information

Chemical name	emical name Oral LD50 Dermal LD50		Inhalation LC50	
Dipropylene glycol monobutyl ether	= 3160 mg/kg (Rat)	= >2000 mg/kg (Rat)	= >5.4 mg/L (Rat) 4 h	

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 No information available.

Serious eye damage/eye irritation No information available.

Not a skin sensitiser (human). Respiratory or skin sensitization

Germ cell mutagenicity No information available.

No information available. Carcinogenicity

Reproductive toxicity No information available.

No information available. STOT - single exposure

STOT - repeated exposure No information available.

Aspiration hazard May be harmful if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity Keep out of waterways.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Dipropylene glycol	-	LC50: =841mg/L (96h,	-	-
monobutyl ether		Poecilia reticulata)		

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Persistence and degradability

Persistence and degradability Readily biodegradable.

Bioaccumulative potential

Bioaccumulation No information available.

Mobility

Mobility in soil No information available.

Other adverse effects

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

containers. Empty containers should be taken to an approved waste handling site for

recycling or disposal.

14. TRANSPORT INFORMATION

ADG

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; 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

National regulations

<u>Australia</u>

Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

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See section 8 for national exposure control parameters

Poisons Schedule (SUSMP) None allocated

International Inventories

This material is listed on the Australian Inventory of Industrial Chemicals. AIIC

Legend:

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 01/2020

Reason(s) For Issue: Reissue of an obsolete SDS

Issuing Date: 25-Oct-2023

This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).

Revision Note:

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

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

STEL (Short Term Exposure Limit) TWA TWA (time-weighted average) STEL

Ceiling Maximum limit value Skin designation

Carcinogen

Key literature references and sources for data used to compile the SDS

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

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)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

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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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text 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 lxom representative or lxom 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