

# SAFETYDATASHEET

Revision date: 09-Aug-2024 RevisionNumber8

# Section 1: Identification

Product identifier

Product Name ETHYL DIGLYCOL ETHER

Product Code(s) 000030329301

Other means of identification

CAS No. 111-90-0

Synonyms Ethyldigol; Ethyl diicinol; Diethylene glycol monoethyl ether; Ethanol,2-(2-ethoxyethoxy)-; Ethyl Di-Glycol Ether; Ethylene diglycol monoethyl ether; 2-(2-Ethoxyethoxy) ethanol; Diethylene glycol ethyl ether.

Recommended use of the chemical and restrictions on use

Recommended use Solvent.

Uses advised against No information available

#### Details of the supplier of the safety data sheet

Supplier Illumina Candle Supplies 4D Morrin Road, Mt Wellington Auckland

Telephone Number: +64 21 763 471

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.

# Section 2: Hazard identification

Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUSGOODS.

Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020. <u>GHS</u> <u>Classification</u>

Serious eye damage/eye irritation	Category 2
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Label elements

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Hazard statements H319 - Causes serious eye irritation

#### **Precautionary Statements - Prevention**

Wear eye/face protection. Wash eyes thoroughly after handling..

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continuerinsing.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

# Section 3: Composition/information on ingredients

Chemical name	ſ	Weight-%
Ethyl diglycol	111-90-0	99
Water	7732-18-5	1

# Section 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; NewZealand 0800 764 766) or a doctor.

Inhalation Remove to fresh air. If breathing is difficult, (trained personnel should) give oxygen. Call aphysician 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 with plenty of water. Call a physician if symptoms occur.

Ingestion Clean mouth with water. Do NOT induce vomiting. Never give anything by mouthtoanunconscious person. Get medical attention immediately if symptoms occur.

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

**Symptoms** May cause redness and tearing of the eyes. Irritation. **Effects of Exposure** No information available.

#### Indication of any immediate medical attention and special treatment needed Note to physicians

Treat symptomatically. Symptoms may be delayed.

# Section 5: Fire-fighting measures

#### Suitable Extinguishing Media

Suitable Extinguishing Media Dry chemical, CO2, water spray or alcohol-resistant foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire. Specific hazards

#### arising from the chemical

Most vapors are heavier than air. Vapors may spread along ground and collect inlowor

Specific hazards arising from the chemical confined areas (sewers, basements, tanks). Pay attention to

flashback. Combustibleliquid.Sealed containers may rupture when heated.

Hazardous combustion products Carbon oxides.

#### Special protective actions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefightingturnout gear.

Special protective equipment and precautions for fire-fighters

Section 6: Accidental release measures

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

Personal precautions Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Donottouch or walk through spilled material. Evacuate personnel to safe areas. Usepersonal 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 a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

#### Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations. Page 3 / 10

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# Section 7: Handling and storage

#### Precautions for safe handling

Advice on safe handling Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Usepersonal protection equipment. Wash thoroughly after handling. Ground and bondall lines

and equipment associated with product system. All equipment should be non-sparking. All equipment may need to be explosion-proof based on a risk assessment. Takeprecautionary measures against static discharges.

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

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep awayfromopenflames, hot surfaces and sources of ignition. Keep container closed when not inuse.

Incompatible materials Halogens. Metal oxides. Strong acids. Strong oxidizing agents. Active metals (Alkali metals,Na, Ca). Non-metal oxides. Acyl halides. Metal phosphides. Strong alkalis.

# Section 8: Exposure controls/personal protection

#### **Control parameters**

Exposure Limits No value assigned for this specific material by the New Zealand Workplace Health&SafetyAuthority.

#### 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, thephysical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.



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 an organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

Environmental exposure controls No information available.

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Section 9: Physical and chemical properties

Information on basic physical and chemical properties Physical state Liquid Appearance Transparent Color Colourless Odor No information available Odor threshold No information available

Property Values Remarks • Method pH No data available None known Melting point / freezing point -76°C None known Boiling point / boiling range 196-202°C None known Flash point 96°C CC (closed cup) Evaporation rate No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known No

data available

Upper flammability or explosive limits

No data available

Lower flammability or explosive limits

Vapor pressure 19 Pa @25°C None known Vapor density 4.6 None known Relative density 0.99 @20°C None known Water solubility No data available None known Solubility(ies) Miscible in water None known Partition coefficient n-Octanol/Water = -0.15 None known Autoignition temperature 204°C None known Decomposition temperature None known Kinematic viscosity No data available None known Dynamic viscosity No data available

None known

Other information Particle characteristics

Section 10: Stability and reactivity

#### **Reactivity**

Reactivity Hygroscopic: absorbs moisture or water from surrounding air. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions May react with metals to produce flammable hydrogen gas. Conditions to

<u>avoid</u>

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Conditions to avoid Heat, flames and sparks. Moisture.

#### **Incompatible materials**

Incompatible materials Halogens. Metal oxides. Strong acids. Strong oxidizing agents. Active metals (Alkali metals,Na, Ca). Non-metal oxides. Acyl halides. Metal phosphides. Strong alkalis.

#### Hazardous decomposition products

Hazardous decomposition products Carbon oxides.

# Section 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 SafetyData 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 diarrhea. Symptoms May cause redness and

tearing of the eyes. Irritation.

#### Acute toxicity .

#### Numerical measures of toxicity

Chemical name	Oral LD50	Dermal LD50	InhalationLC50
Ethyl diglycol	= 10502 m	(Rat)= 9143 mg/kg( Rabbit)>	5240 mg/m³( R
Water	> 90 mL/	-	-

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 Causes serious eye irritation.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity Not listed as carcinogenic according to IARC. (IARC - International Agency for Research on Cancer).

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Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Refer to Section 16 for Key literature references and sources for data used tocompilethe

Data used to identify the healtheffectsSDS.

# Section 12: Ecological information

#### **Ecotoxicity**

Aquatic ecotoxicity Keep out of waterways.

Chemical name	Algae/aqua	Fish	Crustacea
Ethyl diglycol	-	LC50: =10000mg/L Lepomis macrochirus)LC 19100 - 23900mg/L(96h, Le macrochirus)LC50: 11400 - 15700mg/L(96h, Oncorhync LC50: 11600 - 16700mg/l Pimephales promela	(96h, Daphnia magna

Terrestrial ecotoxicity There is no data for this product.

Persistence and degradability Readily biodegradable.

#### **Bioaccumulative potential**

Bioaccumulation There is no data for this product.

Mobility in soil

Mobility No information available.

#### Other adverse effects

No information available.

# Section 13: Disposal considerations

# Waste treatment methods Dispose of product in packaging/container in a way that is consistent with the Hazardous Waste from residues/unused Page 7 / 10 000030329301 - ETHYL DIGLYCOL ETHER Revision date: 09-Aug-2024RevisionNumber8

products Substances (Disposal) Notice 2017 and the Act, and Hazardous Substances (Amendmentsand 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 thechemical from New Zealand as waste.

**Contaminated packaging** For packages that have been in direct contact with hazardous substances, thepersonmustensure that the package is rendered incapable of containing any substance. It must be disposed of in a manner that is consistent with the requirements for disposal of the substance that it contained, taking into account the material the package is manufactured from.

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Packages may only be reused or recycled if:

- the substance has a physical hazard other than corrosive to metal, and has beentreated to remove any residual contents of the hazardous substance;

- or for substances that have a health or environmental hazard, or corrosive tometal, the contents of the residue in the package are below the threshold for the substancetobe

classified as hazardous in the Hazardous Substances (Hazard Classification) Notice2020.

# Section 14: Transport information

**ROAD AND RAIL TRANSPORT** Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous GoodsonLand; NON-DANGEROUS GOODS.

**<u>IATA</u>** 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 MaritimeDangerousGoods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

#### Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

## Section 15: Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture HSR002503 - Additives, Process

Chemicals and Raw Materials (Subsidiary Hazard)

#### EPA New Zealand HSNO approval code or group standard

National regulations There are no applicable tolerable exposure limits or environmental exposure limitsaccording to the EPA Controls for Hazardous Substances

Certified handlers are required for some substances. This includes substances requiringa

Certified handlers, tracking and

controlled substance license, and most explosives, vertebrates toxic agents, andcertain

# controlled substance license requirements

 requirements
 vertebratetoxicagents and fumigants. See Part 7 of the Health and

 fumigants. Acutely toxic substances which are a Category 1 or 2,
 such as pesticidesalsorequire Certified handlers. Please check the

 Health and Safety at Work Act 2015for furtherinformation
 Safety at Work Regulation2017formore information

 Tracking is required for some highly hazardous substances. These
 substances needtobeunder the control of an appropriately trained

 person or appropriately secured. Pleasecheckthe Health and Safety
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 at Work Act 2015 for further information Controlled substance
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 licenses are required to possess certain explosives,
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#### 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

#### International Inventories

NZIOC All the constituents of this material are 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 All the constituents of this material are listed on the Australian Inventory of Industrial Chemicals.
 TCSI Contact supplier for inventory compliance status.

#### 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

SubstancesENCS - 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

#### AllC- Australian Inventory of Industrial Chemicals

TCSI - Taiwan Chemical Substance Inventory

### Section 16: Other information

Prepared By This Safety Data Sheet has been prepared by IXOM Operations Pty Ltd (ToxicologyandSDS Services). Revision date: 09-Aug-2024

Reason(s) For Issue: 5 Yearly Revised Primary SDS

Updated Formulation

Change in Hazardous Chemical Classification

Change in Exposure Controls Change in Personal Protective Equipment (PPE)

#### **Revision Note:**

\*\*\*Indicates updated data since last publication. Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend

SVHC: Substances of Very High Concern for Authorization: PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances STOT: Specific Target Organ Toxicity ATE: Acute Toxicity Estimate LC50: 50% Lethal Concentration LD50: 50% Lethal Dose

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit) Ceiling Maximum limit value \* Skin designation \*\* Hazard Designation + Sensitizers C Carcinogen

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

Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) 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) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) 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) U.S. 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 Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

#### <u>Disclaimer</u>

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of thematerialand general guidance on how to safely handle the material in the workplace. Since IXOM Operations Pty Ltdcannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assessandcontrol the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their IXOM representative or IXOMOperationsPtyLtd 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, acopyofwhich is available upon request.

End of Safety Data Sheet

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