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megaloid.ca



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Our commitment to sustainability.



RDC
Responsible Distribution Canada
Leaders in Chemicals and Ingredients

1. IDENTIFICATION

Name: Glycol Ether DB Acetate

Synonyms: diethylene glycol monobutyl ether acetate; 2-(2-butoxyethoxy) ethyl acetate

Product Uses: solvent, coupling agent

Supplier: Megaloid Laboratories Limited
Identifier: 5515 North Service Road # 306
Burlington, ON L7L 6G4

EMERGENCY INFORMATION: Call CHEMTREC - (800) 424-9300
(CCN# 693764)

2. HAZARD IDENTIFICATION

GHS Class <i>(category)</i>	Not hazardous			
Signal Word	None			
Hazard Statements	None			

GHS Precautionary Statements for Labelling	
	None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:	CAS No.	%	Other Identifiers
Diethylene Glycol Monobutyl Ether Acetate	124-17-4	100	204-685-9

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4. FIRST-AID MEASURES

Inhalation

Remove from contaminated area promptly. **CAUTION: Rescuer must not endanger himself!** If breathing stops, administer artificial respiration and seek medical aid promptly.

Skin Contact

Wash with plenty of water. Remove contaminated clothing and do not reuse until thoroughly laundered.

Eye Contact

Wash eyes with plenty of water, holding eyelids open. Seek medical assistance if there is any irritation.

Ingestion

Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

Most important symptoms and effects, both acute and delayed

Not known

Notes to physician

Treat symptomatically

Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity substance. The stomach should only be emptied under medical supervision, and after the installation of an airway to protect the lungs.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use water spray to extinguish, foam, dry chemical, CO₂; - water fog or spray only to cool containers & dilute spilled material.

Unsuitable Extinguishing Media

Product floats on water – water jet spreads flames

Specific Hazards Arising from the Product

Forms peroxides of unknown stability

Special Protective Equipment and Precautions for Fire-fighters

Firefighters must wear SCBA

Static Charge Accumulation

Cannot accumulate a static charge on agitation or pumping

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation.

Methods and materials for containment and cleaning up

Recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep, shovel & store in closed containers for recycling or disposal

7. HANDLING & STORAGE

Precautions for Safe Handling

Never cut, drill, weld or grind on or near this container. Avoid generating or breathing product mist. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath must be available near the workplace.

Conditions for Safe Storage

Store in a cool, dry environment, away from sources of ignition, heat and oxidising agents. Empty containers may contain a flammable or explosive vapour. Always ensure that containers, whether empty or full, or part full, are tightly sealed unless in use.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

Ontario TWAEV not listed
AGGIH TLV not listed
OSHA PEL not listed

Ontario STEV not listed
ACGIH STEL not listed
OSHA STEL not listed

Ventilation	no special ventilation required; if product mist forms in use, install adequate exhaust ventilation to clear workplace air
Hands	no special protective gloves required; butyl or nitrile gloves are resistant – confirm suitability with supplier
Eyes	safety glasses with side shields – always protect the eyes
Clothing	no special protective clothing required

9. PHYSICAL & CHEMICAL PROPERTIES

Odour & Appearance	clear, colourless liquid with slight, pleasant odour and bitter taste
Odour threshold	not known

pH	none – (does not liberate hydrogen ions when dissolved)
Melting point/Freezing point	-32oC / -23oF ¹ , also -70oC / -94oF ¹
Initial boiling point/boiling range	245oC / 473oF ¹ – other published boiling points between 235oC – 247oC (455oF – 477oF) ¹
Flash point	116oC / 241oF (open cup)
Evaporation rate (<i>Butyl Acetate = 1</i>)	below 0.01 – not considered volatile
Flammability (solid; gas)	no data available
Lower flammable/explosive limit	0.76%
Upper flammable/explosive limit	5.0%
Vapour pressure	0.004mmHg / 0.0005kPa (20oC / 68oF) ¹ - very low
Vapour density (<i>air = 1</i>)	7
Relative density	0.97
Water Solubility	65 grams per litre (20oC / 68oF) ¹ ; also given as 35grams per litre (25oC / 77oF)
Log POW (Octanol/H₂O partition)	1.71
Auto ignition temperature	295oC / 536oF
Decomposition temperature	not known – no decomposition expected up to the boiling point
Viscosity	5.6centipoise (20oC / 68oF), also 3centipoise (20oC) ¹

10. STABILITY AND REACTIVITY

Reactivity

Strong oxidising agents, 70% perchloric acid causes explosion

Chemical Stability

Stable; will not polymerize

Possibility of Hazardous Reactions

Forms peroxides of unknown stability

Conditions to avoid

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Polymerization will not occur

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other material

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	
Skin Contact	“not irritating ¹ ”, may be mildly irritating, causing slight reddening & slight exfoliation
Skin Absorption	yes; no toxic effects likely by this route
Eye Contact	“not irritating ¹ ”, may be slightly irritating; will not damage
Inhalation	may irritate but low vapour pressure makes this unlikely
Ingestion	not known – not a route of industrial exposure
LD50 (oral)	6500 & 11,920mg/kg (rat); 6300mg/kg (mouse), 2260, 2400 & 2670mg/kg (rabbit), 2340 & 2575mg/kg (guinea pig)
LD50 (skin)	5640 & 14,500mg/kg (rabbit)
LC50 (inhalation)	8700ppm (rat)

11. TOXICITY, CONTINUED

General - Prolonged exposure may cause dermatitis; 13 weeks of skin application in rabbits caused kidney damage & blood in the urine

Sensitising - Not a sensitiser in humans or animals¹

Carcinogen/Tumorigen - not considered a tumorigen or a carcinogen in humans or animals

Reproductive Effect - no known effect in humans or animals – some reproductive effects were seen at doses causing severe maternal symptoms¹

Mutagen/Teratogen - no known effect on humans or animals¹

Synergistic With - not known

12. ECOLOGICAL INFORMATION

Bioaccumulation	not a bioaccumulator
Biodegradation	biodegrades readily in the presence of oxygen: 67%, 73% & 100% in 20days ¹ ; 90% & 97% in 14 days ¹
Abiotic Degradation	estimated ½-life in air is 3.8hr & 12.5hr; experimental ½-life is 11 hours ¹ ; hydrolyses in water with a ½-life of 300 days at pH 7 & 30 days at pH 8
Mobility in soil, water	water soluble; moves readily in soil and water
Aquatic Toxicity	
LC50 (Fish, 96hr)	50-70mg/litre (Danio rerio) ¹ , 77mg/litre (Pimephelas promelas) ¹
EC50 (Crustacea, 48hr)	6441 & 665mg/litre (Daphnia magna)
EC50 (Algae)	520 & 1570 mg/litre (Pseudokirchnerella subcapitata) ¹ , >500mg/litre (Desmodesmus subspicatus) ¹
EC10 (Bacteria)	>5000mg/litre (“aquatic bacteria”);
EC0 (Microbes)	1574mg/litre (industrial activated sludge) ¹
EC50 (Microbes)	>5000mg/litre (domestic sewage sludge) ¹ ,

13. DISPOSAL

Waste Disposal

Do not flush to sewer, recycle solvent if possible, local regulations may permit disposal in sanitary landfill, may be incinerated in approved facility after mixing with a suitable flammable waste

Containers

Drums should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use.

Pails must be vented and thoroughly dried prior to crushing and recycling.

IBCs (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5yrs).

Steel containers must be inspected, pressure tested & recertified every 5 years.

Never cut, drill, weld or grind on or near this container, even if empty

14. TRANSPORT INFORMATION

Canada TDG AND U.S.A. 49 CFR	UN/PIN# Class & Packing Group	Not regulated for transport
Marine Pollutant ERAP Required Reportable Quantity (RQ – USA only)	Not a marine pollutant No None	

15. REGULATORY INFORMATION

Canada DSL U.S.A. TSCA Europe EINECS	On Inventory On Inventory On Inventory
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U.S.A. Regulations:

Atmospheric Standards: This action promulgates standards of performance for equipment leaks of Volatile Organic Compounds (VOC) in the Synthetic Organic Chemical Manufacturing Industry (SOCMI). The intended effect of these standards is to require all newly constructed, modified, and reconstructed SOCMI process units to use the best demonstrated system of continuous emission reduction for equipment leaks of VOC, considering costs, non-air quality health and environmental impact and energy requirements. Diethylene glycol monobutyl ether acetate is produced, as an intermediate or a final product, by process units covered under this subpart.

TSCA Requirements: Pursuant to section 8(d) of TSCA, EPA promulgated a model Health and Safety Data Reporting Rule. The section 8(d) model rule requires manufacturers, importers, and processors of listed chemical substances and mixtures to submit to EPA copies and lists of unpublished health and safety studies. 2-(2-butoxyethoxy) ethyl acetate is included on this list. Manufacturers and processors of diethylene glycol butyl ether acetate required to conduct pharmacokinetic testing under TSCA section 4. The effective date of the final rule is April 11, 1988.

16. OTHER INFORMATION

NFPA RATING	Health	Flammability	Instability
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Preparation Date: January 2004

Revision Dates: February 2007, February 2010, February 2013, November 2016, September 2019

Key to Abbreviations	<p>ACGIH® = American Conference of Governmental Industrial Hygienists AIHA® = AIHA® Guideline Foundation HSDB® = Hazardous Substances Data Bank IARC = International Agency for Research on Cancer NIOSH = National Institute for Occupational Safety and Health NTP = National Toxicology Program OSHA = US Occupational Safety and Health Administration RTECS® = Registry of Toxic Effects of Chemical Substances</p>
References	<p>CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA (“BIOVIA”). Available from Canadian Centre for Occupational Health and Safety (CCOHS).</p>
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