



5515 North Service Rd. #306
Burlington, Ontario L7L 6G4

Phone: 905-337-7411
Fax: 905-337-1686

megaloid.ca



1. PRODUCT IDENTIFICATION

Name: *Glycol Ether DPM Acetate*

Synonyms: *1-methyl-(1-propoxy)-2-propanol acetate; dipropylene glycol methyl ether acetate*

CAS# 88917-22-0

Product Uses: *solvent in coatings, inks & for resins; coalescing agent in water-based paints*

Supplier Identifier: *Megaloid Laboratories Limited
5515 North Service Road, Suite 306,
Burlington, ON L7L 6G4
Phone: 905-337-7411 / Fax: 905-337-1686*

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

2. HAZARDS

<i>GHS Class (category)</i>	<i>combustible (4)</i>	<i>eye irritant (2B)</i>	<i>Skin irritant (3)</i>	<i>STOT (3)</i>	
Signal Words	DANGER				
Hazard Statements	<i>Combustible liquid (H227)</i>	<i>Causes eye irritation (H320)</i>	<i>Cause mild skin irritation (H316)</i>	<i>May cause respiratory irritation (H335)</i>	

GHS Precautionary Statements for Labelling

Prevention

- P210** Keep container tightly closed
- P261** Avoid breathing fume/gas/mist/vapours/spray.
- P264** Wash hands thoroughly after handling.
- P271** Use only outdoors or in a well-ventilated area.
- P280** Wear protective gloves / protective clothing / eye protection.

Response

- P304, P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305, P351, P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312** Call a POISON CENTRE or doctor if you feel unwell.
- P332, P313** IF SKIN IRRITATION OCCURS: Get medical advice/attention.

P337, P313	IF EYE IRRITATION PERSISTS: Get medical advice/attention.
P370, P378	Store in a well-ventilated place. Keep cool.
Storage	
P403, P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
Disposal	
P501	Dispose of contents and container in accordance with local, regional, national and international regulations.

3. COMPOSITION

Chemical Name:	CAS No.	%	Other Identifiers
Dipropylene Glycol Methyl Ether Acetate	88917-22-0	100	EC # 406-880-6

4. FIRST AID

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. Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

First-aid Comments

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 & FLAMMABILITY

Extinguishing Media

Suitable Extinguishing Media

Foam, dry chemical, water fog, water spray only to cool & dilute.

Unsuitable Extinguishing Media

Product floats on water - do not use water jet - spreads fire.

Specific Hazards Arising from the Product

Combustible liquid. Can ignite if heated. Releases vapour that can form explosive mixture with air at or above the flash point. Heating increases the release of toxic vapour. Combustion products may include and are not limited to: Carbon monoxide, nitrogen oxides, smoke, part oxidised hydrocarbon fragments.

Special Protective Equipment and Precautions for Fire-fighters

Firefighters must wear SCBA. Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

Static Charge Accumulation

Will not accumulate a static charge on agitation or pumping.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Restrict access to area until completion of cleanup. Ensure cleanup is conducted by trained personnel only. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Ventilate area. Extinguish or remove all ignition sources. Notify government occupational health and safety and environmental authorities.

Environmental Precautions

It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Leak Precaution: Dyke to control spillage and prevent environmental contamination handling
Spill: Ventilate contaminated area; recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep & pick up using plastic or aluminium shovel, & store in closed containers for recycling or disposal.

7. HANDLING & STORAGE

Precautions for Safe Handling

Always ground or electrically bond the source container, receiving container & pump before transferring contents. Avoid splashing by ensuring that the product nozzle is below the surface in the receiving container. Never cut, drill, weld or grind on or near this container. Avoid contact with skin and wash work clothes frequently. An eye bath and safety shower must be available near the workplace. Use non-sparking bronze or aluminium hand tools. All electrical & mechanical equipment (including lighting, switchgear & forklift trucks) used with or around this product must be explosion-proof. Always ensure that containers, whether empty or full, or part full, are tightly sealed unless in use. Avoid breathing product vapour.

Conditions for Safe Storage

Store in a cool, dry environment, away from sources of ignition, heat and oxidising agents. Prolonged storage in mild steel may cause slight discolouration. Explosive peroxides may form on prolonged storage in contact with the oxygen in air.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

Ontario TWAEV 100ppm / 776mg/m³
ACGIH TLV not listed
OSHA PEL Not listed

Ontario STEV 150ppm / 1164mg/m³
ACGIH STEL Not listed
OSHA STEL Not listed

Ventilation	mechanical ventilation may be required to control airborne titre; depending on handling procedures
Hands	not required; nitrile or "Viton" gloves are likely to be resistant – other types may also protect; consult supplier to confirm suitability and check gloves regularly for softening, swelling or penetration
Eyes	safety glasses with side shields – always protect the eyes
Clothing	no special protective clothing required

9. PHYSICAL PROPERTIES

Appearance	<i>clear, colourless, hygroscopic liquid</i>
Odour	<i>slight sweetish ether odour</i>
Odour threshold	<i>not known</i>
Ph	<i>none – (does not liberate hydrogen ions when dissolved)</i>
Melting Point/Freezing Point	<i>-25°C (-13°F) (freezing)</i>
Boiling Range	<i>205-217°C / 401-423°F, 209°C / 408°F</i>
Flash Point	<i>86°C / 186°F (closed cup)</i>
Evaporation Rate	<i>not known – similar to kerosene (Butyl Acetate = 1)</i>
Flammability (Solid, Gas)	<i>Not Available</i>
Upper/Lower Flammability or Explosive Limit	<i>1.2% – 5.4% (at 150°C / 302°F); not available at room temperature</i>
Vapour Pressure	<i>0.084mmHg / 0.011kPa (20°C / 68°F); 0.128mmHg / 0.017kPa (25°C / 77°F)</i>
Vapour Density (air = 1)	<i>6.5</i>
Water Solubility	<i>120grams/litre (20°C / 68°F); also 160grams/litre (25°C / 77°F)</i>
Also soluble in	<i>most organic solvents, limited solubility in glycols and methanol</i>
Log PO/W (Octanol/H₂O partition)	<i>0.803</i>
Auto-ignition Temperature	<i>321°C (610°F)</i>
Decomposition Temperature	<i>not known – no decomposition below the Auto-ignition Temperature</i>
Viscosity	<i>2.5centipoise (20°C / 68°F); 2.2centipoise (25°C / 77°F)</i>
Molecular Formula	<i>C₉-H₁₈-O₄</i>
Molecular Weight	<i>190grams per mole</i>
Vapour Pressure	<i>0.084mmHg / 0.011kPa (20°C / 68°F); 0.128mmHg / 0.017kPa (25°C / 77°F)</i>

10. REACTIVITY

Dangerously Reactive with strong oxidising agents; alkali metals (eg: Na), alkaline earth metals (eg: Ca), metal hydrides, halogens (chlorine etc.); hypochlorites – may form explosive alkyl hypochlorites.

Also Reactive with strong acids (flammable products); strong alkalies (generate heat); attacks & softens PVC (polyvinyl chloride).

Chemical Stability

Stable; will not polymerize.

Possibility of Hazardous Reactions

None known.

Decomposition Products

Apart from Hazardous Combustion Products, potentially explosive peroxides

Conditions to Avoid

Reacts gradually with oxygen (air); accelerated in presence of copper & its alloys

11. TOXICITY

Acute Toxicity	
LD₅₀ (oral)	<i>2930-9760mg/kg (rat)</i>
LD₅₀ (skin)	<i>>5000mg/kg (rabbit) – no mortality at this dose</i>
LC₅₀ (inhalation)	<i>735ppm (rat)</i>

Skin Corrosion/Irritation

Not irritating.

Serious Eye Damage/Irritation

Not irritating.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Little to no effect – partly due to low vapour pressure; product mist may irritate.

Skin Absorption

Slight; no toxic effects likely by this route.

Ingestion

Not known – not a route of industrial exposure.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Prolonged exposure may cause dermatitis through removal of protective skin oils.

Respiratory and/or Skin Sensitization

Not a sensitizer in humans or animals.

Carcinogenicity

Not considered a carcinogen in humans or animals. IARC: Not specifically listed.

ACGIH®: Not specifically designated. NTP: Not specifically listed. OSHA: Not specifically listed.

Reproductive Toxicity

Sexual Function and Fertility

No known effect on humans or animals.

Germ Cell Mutagenicity

No known effect on humans or animals.

12. ECOLOGICAL INFORMATION

Bioaccumulation	<i>not a bioaccumulator; water soluble & rapidly eliminated or metabolised</i>
Persistence and Degradability	Biodegradation - <i>biodegrades in the presence of oxygen; >60% in 28 days (acclimated</i>

	<i>sludge)</i>
	Abiotic Degradation - <i>direct photolysis is reported to cause destruction with a ½-life of 3.8 hours</i>
Mobility in soil, water	<i>water soluble; moves readily in soil and water</i>
Aquatic Toxicity	
LC50 (Fish, 96hr)	<i>151mg/litre (Pimephales promelas), 100-180mg/litre (Oncorhynchus mykiss)</i>
LC50 (Crustacea, 48hr)	<i>1090mg/litre (Daphnia magna, 48hr)</i>
EC50 (Algae, 14 day)	<i>11.4mg/litre ("green algae") – predicted result, EPIWIN modelling</i>
EC50 (Bacteria)	<i>not known</i>

13. DISPOSAL

Water Disposal

Do not flush to sewer, recycle solvent if possible, may be incinerated in approved facility with flue gas monitoring & scrubbing.

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 CLASSIFICATION

Canada TDG	PIN	Not regulated
U.S.A. 49 CFR	PIN Shipping name Technical name Class Packing Group	NA1993 Combustible Liquid, n.o.s.(Dipropylene glycol methyl ether acetate) 3 PG II
		
Marine Pollutant ERAP Required Reportable Quantity E R G No.		Not a Marine Pollutant NO NO 128

15. REGULATIONS

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

U.S.A. Regulations

SARA 311 and 312: flammable (gases, aerosols, liquids, or solids).

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Pennsylvania Worker and Community Right-To-Know Act: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Prop. 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Additional Regulatory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

15. OTHER INFORMATION

NFPA RATING	Health 1	Flammability 2	Instability 0
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Prepared for Megaloid Laboratories Limited by Richard Koscher

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Key to Abbreviations	ACGIH® = American Conference of Governmental Industrial Hygienists AIHA® = AIHA® Guideline Foundation HSDB® = Hazardous Substances Data Bank IARC = International Agency for Research on Cancer NFPA = National Fire Protection Association 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
References	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).
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