

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Dipropylene glycol methyl ether acetate
Product Name / Trade Name	ISO-Thinner
CAS No.	88917-22-0

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Thinner for ISO-Guard Resin
Uses Advised Against	None

Details of the supplier of the safety data sheet

Company Identification	Res-Tek, Inc. 110 Riverside Drive Cartersville, Georgia 30120 United States of America
Telephone	1-888-737-8351 / 1-770-427-4034

Emergency telephone number

CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)	Flam. Liq. 4
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Label elements

Hazard Symbol

Signal Word(s)

WARNING

Hazard Statement(s)

Combustible liquid.

Precautionary Statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
Wear protective gloves/ eye protection/ face protection.

Other hazards

No data available.

Additional Information

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Dipropylene glycol methyl ether acetate	>98%	88917-22-0	Flam. Liq. 4; H227

For full text of H phrases see section 16.

Additional Information - None

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is labored, administer oxygen. If symptoms persist, obtain medical attention.
Skin Contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation (redness, rash, blistering) develops, get medical attention. Wash contaminated clothing before reuse.
Eye Contact	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.
Ingestion	Get medical advice/attention if you feel unwell. Treat symptomatically.

Indication of any immediate medical attention and special treatment needed

None anticipated.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

- Suitable Extinguishing Media
- Unsuitable Extinguishing Media

Extinguish with water spray, dry chemical, sand or carbon dioxide.
None anticipated.

Special hazards arising from the substance or mixture

Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur.

Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Eliminate ignition sources. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so. Put on protective equipment before entering danger area. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

Environmental precautions

Contain spillages with sand, earth or any suitable adsorbent material. Do not allow to enter drains, sewers or watercourses.

Methods and material for containment and cleaning up

Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container for disposal or recovery. If possible prevent water running into sewers.

Additional Information

None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Use only non-sparking tools. Use explosion-proof electrical / ventilating / lighting / equipment. Keep container tightly closed. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and exposed skin after use. Do not breathe dust / fume / gas / mist / vapors / spray. Contaminated work clothing should not be allowed out of the workplace. Work in well ventilated zones or use proper respiratory protection. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

Conditions for safe storage, including any incompatibilities

- Storage temperature Store at room temperature. Keep container tightly closed and in a well-ventilated place. Keep away from heat and sources of ignition.
- Incompatible materials Strong oxidising agents and strong acids.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Dipropylene glycol methyl ether acetate	88917-22-0	100 ppm	100 ppm	150 ppm	150 ppm	Skin

- STEL: Short Term Exposure Limit; IFV = Inhalable Fraction & Vapor

Exposure controls

Appropriate engineering controls

Work in well ventilated zones or use proper respiratory protection.

Personal protection equipment

Eye/face protection



Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)



Gloves (BuButyl rubber. Polyethylene. Chlorinated polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Check with protective equipment manufacturer's data. Gloves should be changed regularly to avoid permeation problems.

Respiratory protection



In case of inadequate ventilation wear respiratory protection. Air-purifying respirator with organic vapor cartridges may provide sufficient protection. Check with protective equipment manufacturer's data.

Thermal hazards

Not normally required.

Environmental Exposure Controls

Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Color.	Colorless to yellow
Odor	Sweet
Odor Threshold (ppm)	Not available.
pH (Value)	Not available.
Melting Point (°C) / Freezing Point (°C)	-25 °C (-13 °F)
Boiling point/boiling range (°C):	209 °C (408 °F)
Flash Point (Closed Cup, °C)	87.5 °C (189.5 °F)
Evaporation Rate	> 1 (Butyl acetate = 1)
Flammability (solid, gas)	Not applicable.
Explosive Limit Ranges	1.21 % vol to 5.35% vol
Vapour pressure (mmHg)	0.0836 at 20 °C (68 °F)
Vapour Density (Air=1)	6.6
Density (g/ml)	0.976 at 25 °C (77 °F) (8.15 lb/gal @ 20 °C)
Specific Gravity	0.976
Solubility (Water)	16 % at 25 °C (77 °F)
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	log Pow: 0.61 OECD
Auto Ignition Point (°C)	285 °C (545 °F)
Decomposition Temperature (°C)	Not available.
Kinematic Viscosity (mm ² /s)	2.24 at 25 °C (77 °F)
Dynamic Viscosity (mPa.s)	1.7 at 25 °C (77 °F)
Explosive properties	Not available.
Oxidizing properties	Not available.
Other information	100% VOC

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No data available..
Chemical stability	Stable.
Possibility of hazardous reactions	Not to be expected.
Conditions to avoid	Product can oxidize at elevated temperatures. Avoid static discharge. Flammable vapors can be released at elevated temperatures.
Incompatible materials	Strong oxidizers. Strong acids.
Hazardous decomposition product(s)	Decomposition products depend upon temperature, air supply and the presence of other materials.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Acute toxicity (estimated / calculated)	Oral: LD50: > 5000 mg/kg (rat) Dermal: LD50: > 2000 mg/kg (rat) Inhalation: LC0 (4 hr, vapor): >5.7 mg/l (rat)
Corrosivity / Irritation	Prolonged exposure not likely to cause significant skin irritation. May cause slight temporary eye irritation. Corneal injury is unlikely.
Sensitization	Did not cause allergic skin reactions when tested in guinea pigs.
Repeated dose toxicity	Causes damage to organs through prolonged or repeated exposure: oral, Kidneys

Mutagenicity

Not to be expected.

Carcinogenicity

Not to be expected.

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Toxicity for reproduction

Not to be expected.

Other information

None known.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity (estimated / calculated)

LC50/EC50/EL50/LL50 >100 mg/L (Fish)
LC50, static test, 96 Hour, 151 mg/l (fathead minnow)
LC50, semi-static test, 96 Hour, 110.55 mg/l (rainbow trout)
LC50, static test, 48 Hour, 2,701 mg/l (water flea)
EC50, static test, 72 Hour, Growth rate inhibition, > 1,000 mg/l (green algae)

Long Term Toxicity

Not available.

Persistence and degradability

Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD > 40%). Biodegradation rate may increase in soil and/or water with acclimation. 10-day Window: Pass. Biodegradation: 84.4 %. Exposure time: 28 d
1.94 mg/mg

Theoretical Oxygen demand

Biological oxygen demand (BOD)

Incubation Time	BOD
10 d	28%
20 d	61%
28 d	67%

Partition Coefficient: n-octanol/water (log Pow):

0.61

Bioaccumulative potential

Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Mobility in soil

Potential for mobility in soil is very high (Koc between 0 and 50).

Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

Partition Coefficient (Koc)

2.27 Estimation by liquid chromatography

Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

Additional Information

None known.

SECTION 14: TRANSPORT INFORMATION

	Land transport (U.S. DOT)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	NA 1933	Not Regulated	Not Regulated
Proper Shipping Name	Combustible liquid, n.o.s.(Dipropylene glycol methyl ether acetate)		
Transport hazard class(es)	CBL		3
Packing group	III		
Environmental hazards	No		
Special precautions for user	None assigned		

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

* Reportable Quantity (RQ) substance

SECTION 15: REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None			

SARA 311/312 - Hazard Categories:

☒ Fire ☐ Sudden Release ☐ Reactivity ☐ Immediate (acute) ☐ Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None		

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)	TPQ (Pounds)
None	-----	-----	-----	-----

Proposition 65 (California):

Chemical Name	CAS No.	Typical %wt.	Hazards
None	-----	-----	-----

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16.

Date of preparation: April 12, 2018

Hazard Statement(s) Listed in: SECTION 3

H227: Combustible liquid.

Additional Information: None.

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