
SECTION 1- PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier

Product Name: **Polyurethane Glycol Cleaner**
SDS ID Number: **3068129**
Product Identification: 62484075304

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

General Use: Spray foam equipment cleaner. For professional use only
Uses advised against:

1.3 Details of the supplier and of the safety data sheet

Manufacturer: ICP Adhesives & Sealants
2775 Barber Road
Norton, Ohio 44203
In Ohio: 330-753-4585; 1-800-321-5585 (Monday-Friday 8:00am-5:00pm EST)

1.4 Emergency telephone numbers

In the U.S.A: CHEMTEL (24 hours) 1-800-255-3924
International Emergency: CHEMTEL (24 hours) 1-813-248-0585

SECTION 2- HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Classification: Flammable Liquid- Category 3
Reproductive Toxicity- Category 1B
Specific Target Organ Toxicity SE Category 3

2.2 Label elements

Hazard Symbols:



Signal Word: **WARNING**

Hazard Statements: H226- Flammable liquid and vapor
H336- May cause drowsiness or dizziness
H360- May damage fertility or the unborn child

Prevention: P201- Obtain special instructions before use
P202- Do not handle until all safety precautions have been read and understood
P210- Keep away from heat/sparks/open flames/hot surfaces-No Smoking
P233- Keep container tightly closed
P240- Ground/bond container and receiving equipment
P241- Use explosion proof electrical/ventilating/lighting equipment
P242- Use only non-sparking tools
P243- Take precautionary measures against static discharge
P261- Avoid breathing dust/fume/gas/mist/vapors/spray
P271- Use only outdoors or in a well-ventilated area
P280- Wear protective gloves, protective clothing and 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.
P303+P361+P353- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P314- Get medical advice if you feel unwell
P370+P378- In case of fire: Use water fog, foam, dry chemical or carbon dioxide for extinction
P381- Eliminate all ignition sources if safe to do so

Storage: P403+P405- Store in a well-ventilated place. Store locked up.
P410- Protect from sunlight
P412- Do not expose to temperatures exceeding 50°C/122°F.

Disposal: P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3 Hazards otherwise not classified

None

SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	Ingredient	CAS No.
90-100	Propylene Glycol Monomethyl Ether	107-98-2
0.1-1	1-Propanol, 2-methoxy	1589-47-5

There are not additional ingredients present which, within the current knowledge of the supplier and in the concentration applicable, are classified as hazardous to the health or environment and hence require reporting in this section.

SECTION 4- FIRST AID MEASURES

4.1 Description of first aid measures

- Eye:** Immediately flush eyes with large amounts of water for at least 15 minutes, holding the eyes open with fingers and occasionally lifting the upper and lower lids. Use lukewarm water if possible. If present and easy to do so, remove contact lenses, if irritation persists, get medical attention.
- Skin:** In case of contact, immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation persists.
- Inhalation:** If product vapor or mist causes respiratory irritation or distress, move exposed person to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.
- Ingestion:** Rinse mouth thoroughly with water. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11.1 for information on toxicological effects.

4.3 Notes to the physician

Symptoms may not appear immediately. If case of an accident or if you feel unwell, seek medical advice immediately (show label or SDS if possible).

SECTION 5- FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable methods of extinction: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide

Unsuitable methods of extinction: DO NOT USE WATER

5.2 Special hazards arising from the substance or mixture

Contains flammable liquid and vapor. Eliminate all ignition sources. Closed containers exposed to fire or high temperature can rupture and explode. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. During a fire irritating and highly toxic gases may be generated by thermal decomposition or combustion. Hazardous decomposition products: Carbon monoxide and Carbon dioxide.

5.3 Advice to firefighters

Keep upwind of fire. Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Containers may explode if heated. Water may not effectively extinguish fire, however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6- ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces- No Smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning- A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation and personal protective equipment.

6.2 Environmental precautions

Avoid release to the environment. Do not allow to enter sewers, drains, or waterways

6.3 Methods and materials for containment and cleaning up

Method for containment: Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. Absorb liquid with vermiculite or with an inert absorbent.

Methods for cleaning up: Scoop up material with non-sparking tools and place in a lidded disposal container. Dispose of as waste in accordance with all applicable guidelines and regulations. Materials used in clean-up may be considered hazardous waste. Vapors can accumulate in low areas. Provide ventilation.

6.4 Reference to other sections

For indications about waste treatment, see Section 13

SECTION 7- HANDLING AND STORAGE**7.1 Precautions for safe handling**

For professional use only. Do not handle until all safety precautions have been read and understood. Keep away from sources of ignition- No smoking. Do not spray on an open flame or other ignition source. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Use only in a well-ventilated area or outdoors. When using do not eat, drink or smoke. (See section 8). Avoid contact with oxidizing agents (chlorine, chromic acid, etc.). Keep away from reactive metals (such as aluminum or zinc) to avoid the formation of hydrogen gas that could create an explosion hazard. Wear low static or properly grounded shoes. Use PPE (gloves, respirators, protective clothing) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

General hygiene advice: Launder contaminated clothing before reuse. Wash hands before eating, drinking or smoking.

7.2 Conditions for safe storage including any incompatibilities

Store in a well ventilated and dry area. Store locked-up. Protect containers from physical abuse. Keep containers cool and upright. Store away from acids and oxidizing agents.

SECTION 8- EXPOSURE CONTROLS/ PERSONAL PROTECTION**8.1 Control Parameters**

CAS No.	Ingredient	ACGIH-TLV	Other
107-98-2	Propylene Glycol Monomethyl Ether	50 ppm TWA 100 ppm STEL	A4:Not classified as a human carcinogen

8.2 Exposure Controls:

Engineering measures: Use ventilation adequate to keep exposures below recommended exposure limits.

Eye/face Protection: None required

Hand Protection: Use chemically resistant gloves (i.e. Nitrile gloves). Nitrile/butadiene rubber, butyl rubber, polyethylene, PVC (vinyl), or neoprene gloves are also effective. Glove selection should take into account potential body reactions to certain materials and manufacturer's instructions for use. Break through time of selected gloves must be greater than the intended use period.

Other Protective Equipment: Use clothing that protects against dermal exposure. Appropriate protective clothing varies depending on the potential for exposure. To ensure proper skin protection, wear PPE in such a manner that no skin is exposed.

Respiratory Protection: If atmospheric levels are expected to exceed the exposure levels, use a NIOSH approved air purifying respirator equipped with an organic vapor cartridge and particulate filter. If atmospheric levels exceed 10 times the TLV or PEL level for which an air-purifying respirator is effective, use a powered air purifying respirator (PAPR). The type of respiratory protection selected must comply with the requirements set forth in OSHA's Respiratory Protection Standard (29 CFR 1910.134).

Hygiene Measures: An eye wash station or portable eye wash station should be in the area. Wash hands thoroughly after use, before eating, drinking or using the lavatory. Employees/Users should be educated and trained in the safe use and handling of this product.

SECTION 9- Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Physical Form	Liquid
Color	Clear
Odor	Ether Odor
Odor Threshold:	No Data Available
pH:	No Data Available
Melting Point/Freezing Point	No data available
Initial Boiling Point and Boiling Range	248°F (120°C)
Flash Point:	88°F (31.1°C),

Evaporation Rate:	5.6
Flammability:	Highly Flammable
Lower Flammability/Explosive Limit:	1.5%
Upper Flammability/Explosive Limit:	13.7%
Vapor Pressure	11.8 mm Hg @ 25°C
Vapor Density:	2.0 (Air = 1)
Relative Density/Specific Gravity:	~ .919 estimated (Water = 1)
Solubility:	Nil
Partition coefficient: n-octanol/water:	No data available
Auto-ignition Temperature:	549°F (287.2°C)
Decomposition Temperature:	No data available
Viscosity:	1.8 mm ² /sec @25°C
Explosive Properties:	May be sensitive to mechanical impact or static discharge. Use non-sparking tools. Vapor released during and immediately after dispensing may accumulate and ignite explosively if proper ventilation is not employed. Extinguish or remove all sources of ignition during dispensing
VOC Content (calculated minus exempt compounds and water)	<=919 g/l

SECTION 10- STABILITY AND REACTIVITY

10.1 Reactivity

This material may be reactive with certain agents under certain conditions- see remaining headings in this section.

10.2 Chemical Stability

Stable under normal storage conditions. Container may explode if heated.

10.3 Possibility of Hazardous Reactions

Exposure to high temperature can cause containers to rupture or explode. Avoid excessive heat and sources of ignition. Reacts with strong oxidizing agents and aluminum.

10.4 Conditions To Avoid

Heat. Incompatible materials. Sources of ignition.

10.5 Incompatible Materials

Strong oxidizing agents, aluminum

10.6 Hazardous Decomposition Products

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11- TOXICOLOGICAL INFORMATION

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, , because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

May cause additional health effects (see below)

Skin Contact:

Contact with skin during product use is not expected to result in significant irritation.

Eye Contact:

Contact with eyes during product use is not expected to result in significant irritation.

Ingestion:

No known health effects

Additional Health Effects:

Single exposure may cause target organ effects:

Central Nervous System Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Toxicological Data

If the component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data is not sufficient for classification.

Name	Route	Species	Value
Overall product	Ingestion		No data available, ATE calculated >5000 mg/kg
Propylene Glycol Monomethyl Ether	Dermal	Rabbit	LD50 11,000-13,800 mg/kg
Propylene Glycol Monomethyl Ether	Inhalation Vapor (4 hours)	Rat	LC50 56 mg/l
Propylene Glycol Monomethyl Ether	Ingestion	Rat	LD50 6,100 mg/kg

Skin Corrosion/Irritation

Name	Species	Value
Propylene Glycol Monomethyl Ether	Not available	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
Propylene Glycol Monomethyl Ether	Not available	Mild irritant

Skin Sensitization

Name	Species	Value
Propylene Glycol Monomethyl Ether	Guinea Pig	Not Sensitizing

Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
Propylene Glycol Monomethyl Ether	In vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Propylene Glycol Monomethyl Ether	Inhalation	Multiple Animal Species	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Propylene Glycol Monomethyl Ether	Inhalation	Not toxic to male reproduction	Rat	NOAEL 11 mg/l	2 generation
Propylene Glycol Monomethyl Ether	Ingestion	Some positive female reproductive data exist, but the data are not sufficient for classification	Mouse	NOAEL 3,328 mg/kg/day	2 generation
Propylene Glycol Monomethyl Ether	Inhalation	Some positive female reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 3.7 mg/l	2 generation
Propylene Glycol Monomethyl Ether	Ingestion	Some positive male reproductive data exist, but the data are not sufficient for classification	Mouse	NOAEL 3,328 mg/kg	2 generation
Propylene Glycol Monomethyl Ether	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 370 mg/kg	During gestation
Propylene Glycol Monomethyl Ether	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 3.7 mg/l	2 generation

Target Organ(s)**Specific Target Organ Toxicity- single exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Propylene Glycol Monomethyl Ether	Dermal	Central Nervous System depression	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL: 1,800 mg/kg	13 weeks
Propylene Glycol Monomethyl Ether	Inhalation	Central Nervous System Depression	May cause drowsiness or dizziness	Human	NOAEL: Not Available	

Specific Target Organ Toxicity- repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Propylene Glycol Monomethyl Ether	Dermal	Kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL: 1,800 mg/kg/day	13 weeks
Propylene Glycol Monomethyl Ether	Dermal	Hematopoietic system	All data are negative	Rabbit	NOAEL: 1,000 mg/kg/day	3 weeks
Propylene Glycol Monomethyl Ether	Inhalation	Kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL: 3.7 mg/l	13 weeks
Propylene Glycol Monomethyl Ether	Inhalation	Liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL: 11 mg/l	13 weeks
Propylene Glycol Monomethyl Ether	Inhalation	Hematopoietic system	All data are negative	Rat	NOAEL: 2.2 mg/l	10 days
Propylene Glycol Monomethyl Ether	Ingestion	Liver/kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL: 920 mg/kg/day	13 weeks

Aspiration hazard:

For the component/components, either no data are currently available or the data are not sufficient for classification.

SECTION 12- ECOLOGICAL INFORMATION**Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 13- DISPOSAL CONSIDERATIONS**13.1 Waste Treatment Methods****Methods of disposal**

Before disposing of containers, collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material must be disposed of in accordance with all local, regional, national, international regulations.

RCRA Hazardous Waste U List: D001 (Ignitable)

Other disposal recommendations:

Do not incinerate containers. Use appropriate Personal Protective Equipment.

SECTION 14- TRANSPORTATION

Containers 1000 cu. cm. (1 liter) or less:

Ground	Limited Quantity
Air	UN3092 1-Methoxy-1-propanol 3 (Flammable Liquid Label) LIMITED QUANTITY Packing Group III
Water	UN3092 1-Methoxy-1-propanol 3 (Flammable Liquid Label) LIMITED QUANTITY

SECTION 15- REGULATORY

15.1 Safety, health, and environmental regulations/ legislations specific for the substance or mixture

U.S. Federal Regulations

OSHA Hazard Communication Standard: This material is classified as a hazardous in accordance with OSHA 29 CFR 1910-1200
TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory. This product is not subject to TSCA 12(b) Export Notification.

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories:

Fire Hazard: No Pressure Hazard: Yes Reactivity Hazard: Yes Immediate Hazard: Yes Delayed Hazard: Yes

SARA 313 Information: None of the chemicals in this product exceed the threshold (de minimis) reporting levels established by Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance: No components of the product exceed the threshold (de minimis) reporting levels established by these sections of the Title III of SARA.

SARA 302/304 Emergency Planning & Notification: No components of the product exceed the threshold (de minimis) report levels established by these sections of the Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): None of the substances in this product are contained in levels that exceed the threshold (de minimis) reporting levels established by CERCLA

Clean Air Act (CAA) – This product does not contain any chemicals that are listed as a Hazardous Air Pollutant (HAP) designated in CAA Section 112 (b). This product does not contain any Class 1 or Class 2 Ozone depleters.

Clean Water Act (CWA) - None of the chemicals in these products are listed as Priority Pollutants under the CWA. None of the chemicals listed in these products are listed as Toxic Pollutants under the CWA.

U.S. State Regulations:

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: None of the components are listed.

15.2 Chemical safety assessment: For this product a chemical safety assessment was not carried out

SECTION 16- OTHER



NFPA: Health Hazard 0; Flammability 3; Reactivity 1

HMIS: Health Hazard 2; Flammability 3; Physical Hazard 1

Hazard Rating: 0=minimal, 1= slight, 2=moderate, 3=severe, 4= extreme

The information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof. The manufacturer makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will the manufacturer be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. No representations or warranties, either expressed or implied, of merchantability or fitness for a particular use are made hereunder with respect to this information or the product to which information refers.

Information contained herein is deemed to be reliable, conservative and accurate. ICP Adhesives & Sealants reserves the right to change the design, specifications or any other features at any time and without notice, while otherwise maintaining regulatory compliance.

Revision- September 13, 2018 Version 2.2

Replaces- May 8, 2018 Version 2.1