SAFETY DATA SHEET

PRODUCT RELATED HEALTH DATA SHEET

1. IDENTIFICATION of the SUBSTANCE/MIXTURE and of the COMPANY

1.1 Product identifier

Product Name : **Blue Adhesive**
Product Code : **Part No. 7969-031**
Product Description : **Threadlocker.**
SDS # : **SDS-180 REVISION #: 3.0.0**
CHEMICAL FORMULA: Mixture.
CAS NUMBER : **Not Applicable.**
Article Code : **Not Applicable.**
GENERAL USE : **Sealant/Threadlocker.**
DATE REVISED: 09/15/2017 DATE PREPARED: 09/15/2017

1.2 Relevant identified uses of the substance or mixture and uses advised against
Not applicable.

1.3 Details of the supplier of the safety data sheet

Carlisle Fluid Technologies, Inc.
16430 North Scottsdale Road
Scottsdale, AZ 85254
Technical service number 1-888-992-4657

1.4 Emergency telephone number
Emergency Number - INFOTRAC
EMERGENCY PHONE (24 HOURS):
1-8OO-535-5053

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Product definition : Mixture.

Classification

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2B
SKIN SENSITIZATION	1

See Section 16 for the full text of the R phrases or H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements
Hazard pictograms :

Signal word : Warning.
Hazard statements : CAUSES SKIN AND EYE IRRITATION.
: MAY CAUSE AN ALLERGIC SKIN REACTION.

Precautionarystatements
Prevention : Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling.
: Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.
Response : IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.

Storage **:** Not prescribed.

Disposal **:** Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Supplemental label elements : None.

Special packaging requirements

Containers to be fitted with child-resistant fastenings **:** Not applicable.

Tactile warning of danger **:** Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

Properties affecting health : Wash areas of contact with soap and water.

Principle routes of exposure : Skin, eye.

Skin contact : Causes skin irritation.

Eye contact : Causes eye irritation.

Inhalation : Inhalation of vapors or mists of the product may be irritating to the respiratory system.

Ingestion : May cause gastrointestinal tract irritation if swallowed.

Chronic Effects: None.

Medical Conditions Aggravated by Long-Term Exposure: May cause an allergic skin reaction.

Target Organs: Not available.

Hazard(s) not otherwise classified : Not classified.

(HNOC)

Signs and Symptoms: May cause irritation to the skin and eyes. If such a reaction occurs, seek medical attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Polyglycol dimethacrylate	25852-47-5	60 - 70
Oleic acid 5.5EO	9004-96-0	20 - 30
Saccharin	81-07-2	1 - 5
Silica, amorphous, fumed, crystal-free	112945-52-5	1 - 5
Cumene hydroperoxide	80-15-9	1 - 5
Propane-1,2-diol	57-55-6	1 - 5
Cumene	98-82-8	0.1 - 1
Titanium dioxide	13463-67-7	0.1 - 1

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections**.**

4. FIRST AID MEASURES

4.1 Description of first aid measures

EYE CONTACT **:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

INHALATION **:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

SKIN CONTACT **:** Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Get medical attention.

INGESTION **:** DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Protection of first-aiders **:** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.2 Most important symptoms and effects, both acute and delayed

Potentialacutehealtheffects

Eye contact : Causes eye irritation.

Inhalation : Inhalation of vapors or mists of the product may be irritating to the respiratory system.

Skin contact : Causes skin irritation.

Ingestion : May cause gastrointestinal tract irritation if swallowed.

Over-exposure signs/symptoms

Eye contact : Causes eye irritation.
Inhalation : Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Skin contact : Causes skin irritation.
Ingestion : May cause gastrointestinal tract irritation if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments : No specific treatment. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

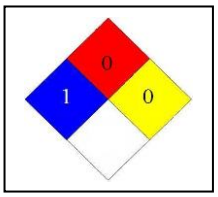
5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Water spray (fog), foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture



Flammability class : Not applicable.
Flame Projection : Not applicable.
Flash Point : > 93.3 °C (> 199.94 °F) Tagliabue closed cup.
Autoignition Temperature : Not determined.
Sensitivity to Static Discharge : No information available.
Hazards from the substance or mixture : No information available.
Unusual Fire and Explosion Hazards : No unusual fire or explosion hazards noted.
Hazardous combustion products : Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic vapors.
Note : None.

5.3 Advice for firefighters

Special precautions for fire-fighters : Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

HMIS RATING: See Section 15.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the MSDS. Observe precautions from other sections.

For emergency responders : Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2 Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil. Prevent entry into waterways, sewers, basements or confined areas. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Spills into or upon navigable waters, the contiguous zone, or adjoining shorelines that cause a sheen or discoloration on the surface of the water, may require notification of the National Response Center (phone number 800-424-8802).

6.3 Methods and materials for containment and cleaning up

Small & Large spill : Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean- up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until

disposal. Dispose of via a licensed waste disposal contractor. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

General : Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8.

Protective measures : Put on appropriate personal protective equipment (see Section 8).
Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities : Keep away from heat and sources of ignition. Store in cool place.
For safe storage, store between 0 °C (32°F) and 32 °C (89.6 °F). Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)
Recommendations : Not available.

Industrial sector specific solutions : Not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Polyglycol dimethacrylate	None	None	None	None
Oleic acid 5.5EO	None	None	None	None
Saccharin	None	None	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	20 MPPCF TWA 0.8 mg/m3 TWA	None	None
Cumene hydroperoxide	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None
Propane-1,2-diol	None	None	10 mg/m3 TWA Aerosol.	None
Cumene	50 ppm TWA	50 ppm (245 mg/m3) PEL (SKIN)	None	None
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 PEL Total dust.	None	None

Recommended monitoring procedures : Follow standard monitoring procedures.
This material does not have established exposure limits. Under conditions which may generate mists, observe the OSHA PEL of 5 mg/m^3.

8.2 Exposure controls

Appropriate engineering : Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Personal Protection Equipment

Eye & Face Protection	: Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.
Skin Protection	: Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. Neoprene gloves. Butyl rubber gloves. Natural rubber gloves.
Body Protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product
Respiratory Protection	: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Other protective clothing	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.
Hygienic Practices	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
8.3 Environmental exposure controls	: Environmental manager must be informed of all major releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm). Data represent typical values and are not intended to be specifications.

Physical state	: Liquid.
Color	: Blue.
Odor	: Mild.
pH	: Not applicable.
Freezing point	: Not available.
Melting point	: Not available.
Flash point	: > 93.3 °C (> 199.94 °F) Tagliabue closed cup.
Boiling point/range	: > 149 °C (> 300.2 °F).
Melting point/ range	: Not available.
Burning rate	: Not applicable.
Flammable/Explosive limits-lower	: 2.6 % (propylene glycol).
Flammable/Explosive limits-upper	: 12.5 % (propylene glycol).
Vapor pressure	: < 5 mm hg (27 °C (80.6 °F)).
Vapor Density (air=1)	: Not available.
Solubility in Water	: Slight.
Partition coefficient: n- octanol/water	: No data.
Auto-ignition temperature	: Not determined.
Decomposition temperature	: No data.
Viscosity	: Not available.
Specific Gravity (water=1)	: 1.1 at 23.9 °C (75.02 °F).
Pour Point	: No data.
Explosive properties	: No data.
VOC content	: 0.56 %; 6.17 g/l (California SCAQMD Method 316B) (Estimated).
Oxidizing properties	: No data.
Evaporation Rate	: No data.

9.2 Other information : Not determined.

10. STABILITY AND REACTIVITY

10.1 Reactivity : Stable under normal conditions of storage and use.

10.2 Chemical stability : Stable.

10.3 Possibility of hazardous reactions : None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials.

10.4 Conditions to avoid : Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials.

10.5 Incompatible materials : Strong oxidizing agents. Free radical initiators. Strong reducing agents. Alkalis. Oxygen scavengers. Other polymerization initiators. Copper. Iron. Zinc. Aluminum. Rust.

10.6 Hazardous decomposition products : Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic vapors.

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Ingestion : May cause gastrointestinal tract irritation if swallowed.
Inhalation : Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Skin contact : Causes skin irritation.
Eye contact : Causes eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics : Direct contact with eyes and skin causes irritation.

11.2 Information on toxicological effects

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Polyglycol dimethacrylate	None	Allergen, Irritant
Oleic acid 5.5EO	None	Irritant
Saccharin	Oral LD50 (Mouse) = 17 g/kg	No Target Organs
Silica, amorphous, fumed, crystal-free	None	Nuisance dust
Cumene hydroperoxide	Inhalation LC50 (Mouse, 4 h) = 200 mg/l	Allergen, Central nervous system, Corrosive, Irritant, Mutagen
Propane-1,2-diol	Oral LD50 (Rabbit) = 18 g/kg Oral LD50 (Mouse) = 23.9 g/kg Oral LD50 (Rat) = 30 g/kg	Irritant
Cumene	Oral LD50 (Rat) = 2.91 g/kg Oral LD50 (Rat) = 1,400 mg/kg Inhalation LC50 (Rat, 4 h) = 8000 ppm	Central nervous system, Irritant, Lung
Titanium dioxide	None	Irritant, Respiratory, Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Polyglycol dimethacrylate	No	No	No
Oleic acid 5.5EO	No	No	No
Saccharin	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No
Cumene hydroperoxide	No	No	No
Propane-1,2-diol	No	No	No
Cumene	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No
Titanium dioxide	No	Group 2B	No

Reproductive toxicity :Knowledge about health hazard is incomplete.
Specific target organ toxicity - single exposure :Eye, Skin and Respiratory tract irritation.
Specific target organ toxicity - repeated exposure :Not classified.
Aspiration hazard :Not likely, due to the form of the product.
Chronic effects :Prolonged inhalation may be harmful.
Further information :None known.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic

Conclusion/Summary : Not available.

12.2 Persistence

Conclusion/Summary : No data is available on the degradability of this product.

12.3 Bioaccumulation/Accumulation

Conclusion/Summary : Not available.

12.4 Mobility/Persistence in soil

Conclusion/Summary : No data available.

12.5 Degradability/Leaching

Conclusion/Summary : No data is available on the degradability of this product.

12.6 Environmental Fate

Conclusion/Summary : Not available.

12.7 Results of PBT and vPvB assessment

Conclusion/Summary : Not available.

12.8 Test Data : Not available.

13. DISPOSAL CONSIDERATIONS

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations.

13.1 Waste treatment methods

Methods of disposal : Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste : Not a RCRA hazardous waste.

13.2 Packaging

Methods of disposal : Dispose of in accordance with local regulations.

13.3 Special precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

	US DOT	ADR/RID
14.1 UN number	UN 3082.	UN 3082.
14.2 UN proper shipping name	RQ, Environmentally hazardous substance, liquid, n.o.s.	
14.3 Transport hazard class(s)	9	9
14.4 Packing group	III	III
14.5 Environmental hazards	ENVIRONMENTALLY HAZARDOUS SUBSTANCE	
14.6 Special precautions for user	Not available.	Not available.

Additional information

Canada Transportation of Dangerous Goods - Ground

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code This substance/mixture is not intended to be transported in bulk.

15. REGULATORY INFORMATION

15.1 US federal regulations

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis.

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Saccharin (CAS# 81-07-2). Cumene hydroperoxide (CAS# 80-15-9).

CERCLA Reportable quantity: Cumene hydroperoxide (CAS# 80-15-9) 10 lbs. (4.54 kg)

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

15.2 Canada Regulatory Information

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

15.3 HMIS RATING: Health 1, Flammability 0, Reactivity 0

15.4 NFPA RATING: Health 1, Flammability 0, Reactivity 0

16. OTHER INFORMATION

16.1 Full text of abbreviated H statements **:** None.

16.2 Full text of classifications : None.

16.3 Full text of abbreviated R phrases **:** None.

16.4 Full text of classifications [DSD/DPD] **:** None.

16.5 Guide to Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

16.6 SDS PREPARED BY: Director of Chemical Safety

The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, Carlisle Fluid Technologies, Inc. makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will Carlisle Fluid Technologies, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.

*** END OF SDS ***