



SAFETY DATA SHEET

1. Product and Company Identification			
PRODUCT NUMBER:	2478	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	THREADLOCKER PC 271	EMERGENCY TELEPHONE:	1-800-535-5053
PRODUCT DESCRIPTION:	High Strength Permanent Threadlocker	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification				
GHS CLASSIFICATION: Carcinogenicity: Category 2 STOT Repeated Exposure: Category 2 Skin Irritant: Category 2 Eye Irritant: Category 2A Skin Sensitization: Category 1 STOT Single Exposure: Category 3	SIGNAL WORD: WARNING	SYMBOL:		
HAZARD-DETERMINING COMPONENTS OF LABELING: 2-hydroxyethyl methacrylate Polyglycol dimethacrylate Dimethylbenzyl hydroperoxide 2'-phenylacetohydrazide				
HAZARD STATEMENTS: H315: Causes skin irritation. H319: Causes serious eye irritation. H317: May cause an allergic skin reaction. H351: Suspected of causing cancer. H335: May cause respiratory irritation. H373: May cause damage to organs through prolonged or repeated exposure.				
PRECAUTIONARY STATEMENTS: Prevention: P260: Do not breathe dust/fume/gas/mist/vapors/spray. P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P264: Wash face, hands and any exposed skin thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P272: Contaminated work clothing must not be allowed out of the workplace. P280: Wear protective gloves/protective clothing/eye protection/face 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. P308+P313: IF EXPOSED OR CONCERNED: Get medical advice/attention. P312: Call a poison center/doctor if you feel unwell. P314: Get medical advice/attention if you feel unwell. P362+P364: Take off contaminated clothing and wash it before reuse. P332+P313: If skin irritation occurs: Get medical advice/attention. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P321: Specific treatment (see on this label). P337+P313: If eye irritation persists: Get medical advice/attention. P363: Wash contaminated clothing before reuse. Storage: P403+P233: Store in a well-ventilated place. Keep container tightly closed. P405: Store locked up. Disposal: P501: Dispose of contents/container in accordance with local/regional/national/international regulations.				
ADDITIONAL INFORMATION: 8.5% of the mixture consists of component(s) of unknown toxicity.				

3. Composition / Information on Ingredients			
Chemical Name	CAS	Concentration % by Weight	
Polyglycol dimethacrylate	25852-47-5	30 – 39%	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335
2-hydroxyethyl methacrylate	868-77-9	20 – 29%	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317
Bisphenol-A Fumarate Resin	39382-25-7	20 – 29%	Skin Irrit. 2, H315; Eye Irrit. 2B, H320
Ethoxylated Bisphenol A Dimethacrylate Esters	41637-38-1	5 – 9%	Skin Irrit. 2, H315; Eye Irrit. 2A, H319
Modified Epoxy Acrylate Oligomer		1 – 4%	Skin Irrit. 2, H315; Flam. Liq. 4, H227; Eye Irrit. 2B, H320

dimethylbenzyl hydroperoxide	80-15-9	1 – 4%	Self-react. F, H242; Org. Perox. E, H242; Acute Tox. 3, H331; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; STOT SE 3, H335; Flam. Liq. 4, H227
Saccharin	128-44-9	1 – 4%	Acute Tox. 4, H302; Combustible Dust
Propylene glycol	57-55-6	1 – 4%	Acute Tox. 4, H302
2'-phenylaceto-hydrazide	114-83-0	≤ 1%	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335
Cumene	98-82-8	≤ 1%	Flam. Liq. 3, H226; Carc. 2, H351; Asp. Tox. 1, H304; Acute Tox. 4, H302; STOT SE 3, H335

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

SKIN: Immediately wash with water and soap and rinse thoroughly.

INHALATION:

Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.

INGESTION:

If symptoms persist consult doctor.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

No further relevant information available.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

No further relevant information available.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. CO₂, sand, extinguishing powder. Do not use water.

UNSUITABLE EXTINGUISHING MEDIA:

Water.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

No further relevant information available.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Wear self-contained respiratory protective device. Wear fully protective suit.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Wear protective clothing.

ENVIRONMENTAL PRECAUTIONS:

Do not allow to enter sewers/ surface or ground water.

METHODS & MATERIALS FOR CONTAINMENT & CLEANUP:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents. Dispose of the collected material according to regulations.

REFERENCE TO OTHER SECTIONS:

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. Handling and Storage

SAFE HANDLING:

Precautions for Safe Handling: Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. No special precautions are necessary if used correctly.

Information about Protection Against Explosions and Fires: Keep ignition sources away. Do not smoke. Protect against electrostatic charges.

SAFE STORAGE & INCOMPATIBILITIES:

Requirements to be Met by Storerooms and Receptacles: No special requirements.

Information About Storage in One Common Storage Facility: Not required.

Further Information About Storage Conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.

SPECIFIC END USE(S):

No further relevant information available.

8. Exposure Controls / Personal Protection

Additional Information About Design of Technical Systems:

No further data; see section 7.

US. OSHA TABLE Z-1 LIMITS FOR AIR CONTAMINANTS (29 CFR 1910.1000)

CONTROL PARAMETERS:

Components with Limit Values that Require Monitoring at the Workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Type	Value
80-15-9 dimethylbenzyl hydroperoxide	WEEL	Long-term value: 6 mg/m ³ , 1 ppm Skin
57-55-6 Propylene glycol	WEEL	Long-term value: 10 mg/m ³
98-82-8 cumene	PEL	Long-term value: 245 mg/m ³ , 50 ppm Skin

REL Long-term value: 245 mg/m³, 50 ppm Skin
 TLV Long-term value: (246) NIC-0.5 mg/m³, (50) NIC-0.1 ppm NIC-A3

ADDITIONAL INFORMATION:

The lists that were valid during the creation were used as basis.

PERSONAL PROTECTIVE EQUIPMENT:



Eye/Face Protection: Tightly sealed goggles.

Skin Protection: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. **Material of gloves:** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Nitrile rubber, NBR. **Penetration time of glove material:** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Respiratory Protection: Not required. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

General Hygiene Considerations: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

9. Physical & Chemical Properties

Form:	Fluid.	Flammability(solid/gas):	Not applicable.
Color:	Red.	Explosive Limit-Lower (%):	Not determined.
Odor:	Characteristic.	Explosive Limit-Upper (%):	Not determined.
Odor Threshold:	Not determined.	Vapor Density:	Not determined.
pH:	Not determined.	Vapor Pressure at 68°C (154.4°F):	≤ 1.3 hPa (≤ 1 mm Hg).
Melting Point/Range :	Undetermined.	Relative Density:	Not determined.
Boiling Point/Range:	>195°C (> 383°F).	Solubility (water):	Not miscible or difficult to mix.
Flash Point:	94°C (201.2°F).	Decomposition Temp:	Not determined.
Auto-Ignition Temp:	Product is not selfigniting.	Partition Coeff(n-octanol/water):	Not determined.
Evaporation Rate:	Not determined.	Ignition Temperature:	n.a°C.
Danger of Explosion:	Product does not present an explosion hazard.	Density at 20°C (68°F):	~ 1.1 g/cm ³ (~ 9.1795 lbs/gal).
Viscosity Dynamic:	Not determined.	Viscosity Kinematic:	Not determined.
Organic Solvents:	1.6%	Water:	1.4%
VOC Content:	1.59% ~ 17.5 g/l / ~ 0.15 lb/gal.	Solids Content:	56.5%

10. Stability & Reactivity Information

REACTIVITY:

No further relevant information available.

CHEMICAL STABILITY:

Thermal decomposition/conditions to be avoided. No decomposition if used according to specifications.

POSSIBILITY OF HAZARDOUS REACTIONS:

No dangerous reactions known.

CONDITIONS TO AVOID:

No further relevant information available.

INCOMPATIBLE MATERIALS:

No further relevant information available.

HAZARDOUS DECOMPOSITION PRODUCTS:

Aldehyde.
Hydrocarbons.

11. Toxicological Information

PRIMARY ROUTE OF ENTRY:

Eyes: Irritating effect.

Skin: Irritant to skin and mucous membranes.

Components	Species	Test Results
868-77-9 2-hydroxyethyl methacrylate		
Acute		
<i>Oral</i>		
LD50	Rat	5,050 mg/kg
80-15-9 Dimethylbenzyl hydroperoxide		
Acute		
<i>Dermal</i>		
LD50	Rat	500 mg/kg
<i>Inhalation</i>		
LC50/4h	Rat	220 mg/l
<i>Oral</i>		
LD50	Rat	382 mg/kg

128-44-9 Saccharin			
Acute <i>Oral</i> LD50	Rat		1,280 mg/kg
57-55-6 Propylene glycol			
Acute <i>Dermal</i> LD50	Rabbit		20,800 mg/kg
<i>Oral</i> LD50	Rat		2,000 mg/kg
114-83-0 2'-phenylacetohydrazide			
Acute <i>Oral</i> LD50	Mouse		270 mg/kg
98-82-8 Cumene			
Acute <i>Dermal</i> LD50	Rabbit		12,300 mg/kg
<i>Inhalation</i> LC50	Mouse		24.7 mg/l /4 h
<i>Oral</i> LD50	Rat		1,400 mg/kg
ADDITIONAL TOXICOLOGICAL INFORMATION:			
The product shows the following dangers according to internally approved calculation methods for preparations: Irritant.			
SKIN SENSITIZATION:			
Sensitization possible through skin contact.			
CARCINOGENICITY:			
IARC (International Agency for Research on Cancer):			
98-82-8 cumene 2B			
NTP (National Toxicology Program):			
98-82-8 cumene R			
130-15-4 1,4-naphthoquinone R			
OSHA-Ca (Occupational Safety & Health Administration):			
None of the ingredients is listed.			

12. Ecological Information

ECOTOXICITY:	No further relevant information available.
PERSISTENCE AND DEGRADABILITY:	No further relevant information available.
BIOACCUMULATIVE POTENTIAL:	No further relevant information available.
MOBILITY IN SOIL:	No further relevant information available.
ADDITIONAL ECOLOGICAL INFORMATION:	
GENERAL:	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
RESULTS OF PBT AND VPVB ASSESSMENT:	
PBT:	Not applicable.
vPvB:	Not applicable.
OTHER ADVERSE EFFECTS:	No further relevant information available.

13. Disposal Consideration

DISPOSAL INSTRUCTIONS:	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
CONTAMINATED PACKAGING:	Disposal must be made according to official regulations.

14. Transportation Information

DOT:	UN Number: Not regulated.
	UN Proper Shipping Name: Not regulated.
	Transport Hazard Class(es):
	Class: Not regulated.
	Packing Group: Not regulated.
	Environmental Hazards:
	Marine Pollutant: No.
	Special Precautions for User: Not applicable.

IATA: **UN Number:** Not regulated.
UN Proper Shipping Name: Not regulated.
Transport Hazard Class(es):
Class: Not regulated.
Packing Group: Not regulated.
Environmental Hazards:
Marine Pollutant: No.
Special Precautions For User: Not applicable.

IMDG: **UN Number:** Not regulated.
UN Proper Shipping Name: Not regulated.
Transport Hazard Class(es):
Class: Not regulated.
Packing Group: Not regulated.
Environmental Hazards:
Marine Pollutant: No.
Special Precautions For User: Not applicable.

ADN: **UN Number:** Not regulated.
UN Proper Shipping Name: Not regulated.
Transport Hazard Class(es):
Class: Not regulated.
Environmental Hazards:
Marine Pollutant: No.

SPECIAL PRECAUTIONS FOR USER:
Not applicable.

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:
Not applicable.

UN MODEL REGULATION:
Not regulated.

15. Regulatory Information

US FEDERAL REGULATIONS:

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

Sara Section 355 (extremely hazardous substances): None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

80-15-9 dimethylbenzyl hydroperoxide
98-82-8 cumene

TSCA (Toxic Substances Control Act):

Polyglycol dimethacrylate
2-hydroxyethyl methacrylate
Bisphenol-A Fumarate Resin
Ethoxylated Bisphenol A Dimethacrylate Esters
dimethylbenzyl hydroperoxide
Saccharin
Propylene glycol
2'-phenylacetohydrazide
Cumene
2-Phenyl-2-propanol
tetrasodium ethylenediaminetetraacetate
N-isopropylhydroxylamine
1-hydroxyethane-1,1-diylbis(phosphonic acid)
Colorant
1,4-naphthoquinone
Colorant
phosphorous acid
acetone oxime
Deionized water

TSCA new (21st Century Act) (Substances not listed):

25852-47-5 Polyglycol dimethacrylate
39382-25-7 Bisphenol-A Fumarate Resin
41637-38-1 Ethoxylated Bisphenol A Dimethacrylate Esters
Modified Epoxy Acrylate Oligomer
114-83-0 2'-phenylacetohydrazide

PROPOSITION 65:

Chemicals known to cause cancer:

98-82-8 cumene

Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.

Chemicals known to cause developmental toxicity: None of the ingredients is listed.

Carcinogenic Categories:

EPA (Environmental Protection Agency):

98-82-8 cumene

TLV (Threshold Limit Value established by ACGIH):

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients is listed.

CHEMICAL SAFETY ASSESSMENT:

A Chemical Safety Assessment has not been carried out.

16. Other Information**DISCLAIMER:**

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.