



THREADLOCKER (PERMANENT HOLD)

Material Safety Data Sheet

February 1, 2022

1. Chemical Products and their Identification

Product Name: 272 RT Thread Locking Agent (Permanent Hold)

Order Code: 27200

Product Type: Anaerobic

2. Composition, Ingredient Information

Element	CAS code	%
Polyethylene glycol dimethacrylate	25852-47-5	60-65
Polyethylene glycol oleate	9004-96-0	25-30
O-sulfonyl benzimide	81-07-2	3-5
Cumene Hydroperoxide*	80-15-9	1-3
Propylene Glycol	57-55-6	1-3
Amorphous amorphous fumed silica	112945-52-5	1-3
N,N-Dialkyltoluidine	613-48-9	0.1-1
Titanium dioxide	13463-67-7	0.1-0.5

*This ingredient is listed in SARA Section 313, Toxic Chemicals.

There are exposure restricted ingredients.

Exposure Limit (TWA) Element	ACGIH (TLV)	OSHA (PEL)	Other
Cumene hydroperoxide	without	without	1ppm (6 mg/m ³) Skin (WEEL)
Amorphous amorphous fumed silica	10mg/m ³ TWA	6mg/m ³ TWA	3mg/m ³ TWA Respirable dust
Titanium dioxide	10mg/m ³ dust	15mg/m ³ Total dust	without
Exposure Limit (STEL) Element	ACGIH (TLV)	OSHA (PEL)	

3. Hazard Information

Toxicity:	Slightly irritating to the eyes. Propylene glycol slightly irritates the skin.
The main way of intrusion:	Contact with eyes and skin.
Signs and symptoms:	Prolonged exposure to sensitive individuals can cause dermatitis.
Exposure causes deterioration of living conditions:	Propylene glycol: Dermatitis.

Element	References	Carcinogen		
		NTP	IARC	OSHA
	Effects on human organs and other health conditions			
Polyethylene glycol dimethacrylate	ALG IRR	without	without	without
Polyethylene glycol oleate	IRR	without	without	without
O-sulfonyl benzimide	NTO	without	Not Applicable	Not Applicable
Cumene hydroperoxide	ALG CNS COR IRR MUT	without	without	without
Propylene Glycol	IRR	without	without	without
Amorphous amorphous fumed silica	NUI	without	Not Applicable	Not Applicable
N,N-Dialkyltoluidine	NTO	without	without	without
Titanium dioxide	IRR RES	without	without	without

Abbreviation

N/A Not Applicable

CNS Central Nervous System

IRR Irritating

ALG Allergy

COR Corrosion

MUT Mutagen

NTO No Target Organ

NUI Harmful Dust

RES Breathe

4. First Aid Measures

Ingestion:	Don't induce vomiting. Keep calm and seek medical help.
Inhalation:	Not applicable.
Skin Contact:	Rinse thoroughly with soapy water.
Eye Contact:	Rinse with water for at least 15 minutes and seek medical help.

5. Fire Fighting Measures

Flash point:	More than 200°F Method: Tag Closed Cup
Recommended fire extinguishing agent:	Carbon dioxide, foam, dry powder fire extinguishing agent.
Special fire fighting methods:	Not Applicable
Hazardous substances produced by combustion or thermal decomposition:	Irritating organic vapors; carbon oxides.
Special fire or explosion hazards:	Without
Explosion limits: (Volume ratio in air, %)	
Lower limit:	Propylene glycol: 2.6%
(Volume ratio in air, %) Upper limit:	Propylene glycol: 12.5%

6. Accidental Leakage Treatment

Unexpected overflow or leakage treatment measures: Absorb with inert absorbent, store in a closed container, pending disposal.

7. Operation and Storage

Safe Storage: Store below 100°F.
(For specific storage life, please email support@rotarythread.com)

Operate: Avoid long-term contact with skin.
Avoid contact with eyes.

8. Personal Protection

Eye: Protective glasses or goggles.

Skin: Neoprene or butyl rubber gloves.

Ventilation: Not Applicable

Breathe: Not Applicable

See Exposure Limits in Section 2

9. Physical and Chemical Properties

Exterior: Red Liquid

Odor: Slight

Boiling Point: More than 300°F.

pH: Not Applicable

Water Solubility: Slightly Soluble

Proportion: Under 75°F, 1.1

Organic Volatility (EPA, Method 24): 4.478%;
49.3g/L

Steam Pressure: Under 80°F, less than 5mmHg

Steam Density: Not Applicable

Evaporation Rate (ether = 1): Not Applicable

10. Stability and Activity

Stability: Stabilize

Dangerous Aggregation: Will not occur

Incompatibility: Strong oxidizer, free radical initiator, inert gas.

Situations to Avoid: No known

Hazardous Decomposition Products (Non-thermal Decomposition): Slightly Soluble

Without

11. Toxicity Information

Estimated oral injury limit LD50 exceeds 10000mg/kg
Estimated skin damage limit LD50 exceeds 5000mg/kg

12. Ecological Impact

No data available.

13. Disposal Considerations

Suggested Treatment Method: Incineration in accordance with EPA and local regulations
EPA Hazardous Waste Serial Number: NH- not classified as RCRA hazardous waste

14. Transport Information

**DOT (49 CFR 172)
U.S. domestic ground
transportation**

Suitable shipping name: No classification
Danger level: No classification
Identification number: Without
Marine pollutants: Without

IATA

Suitable shipping name: No classification
Danger level: No classification
UN or ID number: Without

15. Regulatory Information

CA Clause 65: Does not contain chemicals specified in CA Clause 65.

16. Other Information

NFPA (R) Evaluation Code:
Health Hazards: 1
Flammability: 1
Reaction risk: 1
Special Hazards: Not Applicable
HMIS (R) Evaluation Code:
Health hazards: 1*
Flammability: 1
Reaction Risk: 1
Personal Protection: See section 8