

MATERIAL SAFETY DATA SHEET

IDENTITY (As used on label and list)
TURBO SEAL – SERIES 85 – WHITE
Stainless Steel Thread Sealant

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

SECTION I

Manufacturer's Name Palm Labs., Inc	Emergency Telephone Number 1800 964-6660
Address 10 Office Way Hilton Head, SC, 29928	Telephone Number For Information. 843 686-2345
	Date Prepared 07/25/08
	Signature of Preparer (optional)

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))		% Wt.	CAS No.	EC No.
Polyethylene Glycol Dimethacrylate	Xi: R36 R43	45 – 65	923-26-2	213-090-3
Trimethylpropane Triacrylate	Xi: R36/38 R43	10 – 25	15625-89-5	239-701-3
Cumene Hydroperoxide	O: R7 T: R23 Xn: R21/22 48/20/22 C: R34 N: 51, 53	0.5 – 3	80-15-9	201-254-7
1-Acetyl-2-Phenylhydrazine	Xn: R20/21/22 R40 Xi:R36/37/38 R43	0.10-0.95	114-83-0	204-055-3

RISK PHRASES:

R7: May cause fire. R20/21/22: Harmful by inhalation, in contact with skin, and if swallowed. R23/24/25: Toxic by inhalation, in contact with skin, and if swallowed. R34: Causes burns. R36/37/38: Irritating to eyes, respiratory system and skin.

R40: Limited evidence of a carcinogenic effect. R43: May cause sensitization by skin contact. R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. R51/53: Toxic to aquatic organisms.

SECTION III - Physical/Chemical Characteristics

Appearance and Odor White liquid/paste, Slightly sweet, characteristic	Vapor Pressure(mm/Hg.) ~0.1 @ 20° C
pH: ~3-5	Relative Density ~1.08
Boiling Point NA	Solubility in Water (by weight) Low
Melting Point NA	Solubility in Solvents Miscible in organic solvents, eg acetone
Flammability Non-flammable	Vapor Density (air=1) Not Established
Explosive Properties Not available	Partition Coefficient, log Pow Non established, but likely to be <3)
Oxidizing Properties None	Evaporation Rate (Butyl Acetate = 1) Not established

SECTION IV - Fire And Explosion Hazard Data

Flash Point (Method Used)
> 100°C

Extinguishing Media
Alcohol Resistant Foam, Dry Powder, Carbon Dioxide. Unsuitable: Direct water jets.

Hazardous Decomposition:
Possible risk of explosion. Toxic fumes are produced in fire – CO, Co2, oxides of nitrogen possibly evolved.

Special Fire Fighting Procedures
Wear self-contained breathing apparatus.

SECTION V - Reactivity Data

Stability	Unstable		Conditions To Avoid
	Stable	X	At normal temperatures. Avoid elevated temperatures, sources of ignition, direct sunlight, and low oxygen environments.
Incompatible Materials to Avoid			Oxidizing agents, free radical initiators, reducing metal oxides. Do not allow to contact or store in aluminum, mild steel, rusty steel, copper or alloys of tin vessels.
Hazardous Decomposition Or Byproducts			
Hazardous Polymerization	May Occur	X	Combustion/exothermic polymerization will generate oxides of carbon, acrid smoke and irritating fumes.
	Will Not Occur		

SECTION VI - Health Hazard Data

Routes of Entry	Inhalation? yes	Skin? yes	Eyes? yes	Ingestion yes
Acute Toxicity: INGESTION: Expected to be very low. INHALATION: Expected to be low. RESPIRATORY TRACT: Mild irritation of nose and throat. SKIN CONTACT: Expected to be low.				
First Aid Measures: Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention. Skin Contact: Remove contaminated clothings and shoes. Rinse immediately with plenty of water and then wash with soap. Get medical attention if symptoms occur. Eye Contact: Flush with copious amounts of water, preferably lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention. Ingestion: Do not induce vomiting. Give plenty of water to drink. Beware of aspiration if vomiting occurs – seek medical attention immediately.				
Signs and Symptoms of Exposure. Prolonged or repeated over-exposure may lead to sensitizing effects and/or dermatitis in sensitive individuals.				

SECTION VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Ventilate area. Do not allow spill to enter drains and watercourses. Wear polythene, neoprene or nitrile gloves, chemically resistant overalls and boots, and eye protection. Adsorb in inert material such as sand or adsorbant granules. Scoop up and place in plastic container to await transfer.

Waste Disposal Method

Dispose of in accordance with current local, State and Federal regulations.

Precautions to be Taken in Handling and Storing

Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Ensure adequate ventilation and/or use local extraction. For safe storage, store at or below 38° C (100° F). Keep in cool, dry, well-ventilated area out of direct sunlight. Keep away from sources of ignition. Store in closed, labeled containers. Can be stored in LDPE containers. Do not store in aluminum, mild steel, rusty steel, copper or (alloys of) in tin vessels.

Other Precautions

Do not use PVC or plastic

SECTION VIII - Control Measures

Respiratory Protection (*Specify Type*)

Use in adequate ventilation

Ventilation	Local Exhaust OK	Special
	Mechanical (<i>General</i>)	Other
Protective Clothing: Gloves- polythene, neoprene or nitrile	Eye Protection: Safety goggles	
Other Protective Clothing or Equipment None		

SECTION IX – Ecological Information

Ecotoxicity	Considered to be low due to probable biodegradability and low Log Pow expected to be <3.
Bioaccumulative Potential	Expected to be low.
Persistence	Considered to be biodegradable. Testing of one component gave a biodegradability result of 85% after 28 days.
Mobility	Considered to be relatively low due to low water solubility

SECTION X – Transport Information

U.S. Department of Transportation Ground (49 CFR):	
Proper shipping name	Unrestricted
Hazard class or division	None
Identification Number	None
Packing Group	None
International Air Transportation (ICAO/IATA):	
Proper shipping name	Unrestricted
Hazard class or division	None
Identification Number	None
Packing Group	None
Water Transportation (IMO/IMDG):	
Proper shipping name	Unrestricted
Hazard class or division	None
Identification Number	None
Packing Group	None
Marine pollutant	None

PALM LABS INC. 07/25/08