

MATERIAL SAFETY DATA SHEET

IDENTITY (As used on label and list)
TURBO SEAL - SERIES 50 - PURPLE
Flexible Gasket Maker Thread Sealant

Part Numbers for this MSDS:
50-050, 50-300

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 9/7/2011
	Signature of Preparer (optional)

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))

		% Wt.	CAS No.	EC No.
Aliphatic Urethane Acrylate	Xi: R36/38	25 – 60	Proprietary	Proprietary
2-Hydroxypropylmethacrylate	Xi: R36 R43	5 – 25	923-26-2	213-090-3
Trimethylolpropane Triacrylate	Xi: R36/38 R43	1 – 10	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-2Phenylhydrazine	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 Purple, high viscosity, liquid paste. slightly sweet, characteristics	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
Flash Point 100°C	Vapor Density (air=1) Not Established
Flammability Non-flammable	Particion Coefficient, log Pow Non established, but likey to be <3)
Explosive Properties Not available	Evaporation Rate (Butyl Acetate = 1) Not established
Oxidizing Properties None	

SECTION IV - Fire And Explosion Hazard Data

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

Do not breathe decomposition products and fumes. Wear self-contained breathing apparatus.

SECTION V - Reactivity Data

Stability	Stable at normal conditions
Conditions to avoid	Elevated temperatures, sources of ignition, direct sunlight, and low oxygen environments. Hazardous exothermic, polymerization can occur if exposed to elevated temperatures for periods of time.
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 Products	Combustion/exothermic polymerization will generate oxides of carbon, acrid smoke and irritating fumes.

SECTION VI - Health Hazard Data

Routes of Entry	Inhalation? yes	Skin? yes	Eyes? yes	Ingestion? yes
HMIS	Health 1	Flammability 1	Reactivity 1	PPE H

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 clothing 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.

SECTION VII - Precautions for Safe Handling and Use

Handling

Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Ensure adequate ventilation and/or use local extraction.

Storage

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 tightly closed, labeled containers. Can be stored in LDPE containers. Do not allow to contact or store in aluminum, mild steel, rusty steel, copper or (alloys of) in tin vessels.

Personal Protection

Wear suitable respiratory protection for large spills and in confined spaces. Wear polythene gloves, chemically resistant overalls and boots, and eye protection.

Exposure Controls

Ventilate area. Evacuate all personnel. Do not allow spill to enter drains and waterways.

Disposal Considerations

Absorb in inert material such as sand or absorbent granules. Scoop up and place in plastic container to await transfer. Do not discharge into drains or watercourses. Product residues can be cleaned out of containers. Alternatively, product can be polymerized using Palm Labs activator. Care should be taken if polymerizing large quantities of product due to exothermic reaction. Hardened product can be disposed of as chemical waste by incineration or licensed contractors. Clean containers can be disposed of by landfill, incineration or possibly recycled.

SECTION VIII – 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 IX – 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.