

MATERIAL SAFETY DATA SHEET

IDENTITY (As used on label and list) TURBO DEBONDER	Part Numbers for this MSDS: 50-120, 50-130, 50-140
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SECTION I

Manufacturer's Name Palm Labs., Inc	Emergency Telephone Number 1-800 964-6660
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 - Ingredients/Identity Information

Composition on Ingredients (Specific Chemical Identity; Common Name(s))	CAS NO.	%
Amide Family	68-12-2	Proprietary
Molecular Formula	C(3) H(7) ON	
Chemical Family	Amide	
Ingredients With Workplace Control Parameters:	OSHA	PEL 10 ppm 30 mg/m3; Skin Designation
Amide Family	ACGIH	TWA value 10 ppm; Skin Designation

SECTION III - Physical/Chemical Characteristics

Form: Liquid	Vapor Pressure 3.77 mbar (20°C)
Odor: Faint specific odor, amine-like	Density: 0.94 g/cm3 (20°C)
Color: Colorless	Partitioning Coefficient n- -1.01
pH Value: 7 (200 g/l, 20°C)	Viscosity, Dynamic: 0.86 mPa.s (20°C)
Melting Point: -61 °C	Solubility in Water: Miscible (20°C)
Boiling Range: 152-153°C	

SECTION IV - Fire And Explosion Hazard Data

Flash Point (Method Used) 58°C	Explosion Limits Lower 2.2% (v) Upper: 16% (v)	Autoignition Temperature 410°C
Extinguishing Media Water, dry extinguishing media, foam, carbon dioxide		
Protective Equipment for Fire Fighting: Wear self-contained breathing apparatus and turn-out gear.		
Further Information Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.		
Health Hazard Codes Health: 2 Fire: 2 Reactivity: 0		

SECTION V - Health Hazard Data

Routes of Entry	Inhalation?	Skin?	Eyes?	Ingestion?
	Yes	Yes	Yes	Yes

SECTION V - Health Hazard Data - Continued

First Aid Measures:	General:	Remove contaminated clothing
	Inhalation:	Remove to fresh Air. Assist in breathing if necessary. Immediate medical attention required.
	Skin Contact:	Wash affected areas thoroughly with soap and water. Immediate medical attention required.
	Eye Contact:	Flush with water for at least 15 minutes with plenty of water. Immediate medical attention required.
	Ingestion:	Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

SECTION V - Health Hazard Data - Continued

Emergency Overview:	Combustible Liquid, Toxic if absorbed through skin. May cause Kidney damage based on animal data. May cause Liver damage. May cause Cardiac or Cardiovascular damage based on animal data. May adversely affect the developing fetus based on animal data.
Acute Toxicity:	Inhalation may cause facial flushing, especially alcohol ingestion. Bluish color to the skin and mucous membranes, headache, dizziness, confusion and coma. Acute overexposure in animals causes weight loss and adverse liver, kidney, cardiovascular and bone marrow effects. Can be skin absorb in toxic amounts.
Pre-existing Medical Conditions:	Pre-existing diseases of liver, skin, kidney or blood may have increased susceptibility to excessive exposures.

Section VI – Accidental Release Measures

Personal Precautions

Avoid inhalation. Avoid contact with the skin, eyes and clothing.

Environmental Precautions

Do not empty into drains.

Substance/product is RCRA hazardous due to its properties.

Cleanup:

Spills should be contained, solidified, and placed in suitable containers for disposal.

SECTION VII - Safe Handling and Use

General Advice for Handling:

Ensure thorough ventilation of stores and work areas even at ground level – vapors are heavier than air. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safe practice. Wear suitable personal protection and equipment.

Protection Against Fire and Explosion:

Prevent electrostatic charge. Sources of ignition should be kept away with fire extinguishers kept near by. Vapors may accumulate in low areas and travel considerable distances to sources of ignition.

General Advice for Storage:

Avoid all sources of ignition (heat, sparks, open flame). Keep container tightly closed in a cool, well-ventilated place. Storage duration – 12 months.

Respiratory Protection:

If exposure limits may be exceeded, wear NIOSH-certified (or equivalent) organic vapor/particulate respirator. Do not exceed the maximum use concentration for the respirator.

Hand Protection:

Chemical resistant protective gloves.

Eye Protection:

Wear face shield or tightly fitting safety goggles if splashing hazard exists.

General Safety and Hygiene Measures:

Eye wash fountains and safety showers must be easily accessible. Wear protective clothing to prevent contact. Avoid inhalation of vapors and mists.

Advise on System Design:

Provide local exhaust ventilation to control vapors/mists.

SECTION VIII – Stability & Reactivity

Substances to Avoid:	Nitrates, strong Oxidizing Agents
Hazardous Reactions	Reacts with strong Oxidizing Agents, Halogenated Compounds

SECTION IX – Disposal Considerations

Waste Disposal

Must be dumped or incinerated in accordance with local regulations.

Incinerate or dispose of in a RCAA-licensed facility.

Do not discharge into waterways or sewer systems without proper authorization.

Container Disposal

Empty containers with less than 1” of residue may be landfilled in a licensed facility. Recommend crushing or puncturing to prevent unauthorized use of used containers. If containers are not empty, they must be disposed of in a RCAA-licensed facility.

RCRA: D001

SECTION X – Transport Information

Land Transport (USDOT): Proper shipping name Hazard class or division Identification Number Packing Group	N,N-DIMETHYLFORMAMIDE 3 UN 2265 III
Sea Transportation (IMDG): Proper shipping name Hazard class or division Identification Number Packing Group	N,N-DIMETHYLFORMAMIDE 3 UN 2265 III
Air Transportation (IATA/ICAO): Proper shipping name Hazard class or division Identification Number Packing Group	N,N-DIMETHYLFORMAMIDE 3 UN 2265 III

SECTION XI – Regulatory Information

Federal Regulations Registration Status	TSCA, US Released / listed	
CERCLA RQ 100 Lbs	CAS Number 68-12-2	Chemical Name Amide Family
SARA Hazard Categories (EPCRA 311/312): Acute, Fire, Chronic SARA 313: CAS Number 68-12-2	Chemical Name Amide Family	
State Regulations State RTK CAS Number 68-12-2	Chemical Name Amide Family	State RTK MA, NJ, PA
Other Information HMIS III Rating Health: 2	Flammability: 2	Physical Hazard: 0

PALM LABS INC.