Material Safety Data Sheet

Fatty Di amine TD (RXSOL-90-9010-016)

1. Product and Company Identifaction

Product Name	Fatty Di amine TD
Part Number	RXSOL-90-9010-0160

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Chennai, Kolkata, Visakhapatnam, Kandla, Fujairah

Phone	+91 22 27815540 / 41 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

Ingrident	CAS Number	Weight Percentage
Tallow Di-Amine	61791-55-7	100%

3. Hazards Identification

Classification	Semi Sold
Signal Word	Corrosive
Potential Health Effects:	Corrosive (Eyes, Skin, Mucous Membranes)
Potential Chronic Health Effects:	Slightly hazardous in case of skin contact (sensitizer).
Eye	Causes eye burns. Contact with product at elevated temperatures can result in thermal burns.
Skin	Causes skin burns. Contact with product at elevated temperatures can result in thermal burns.
Ingestion	Can burn mouth, throat, and stomach.
Inhalation	Inhalation of vapors or mists may cause damage to mucous membranes or severe irritation of respiratory passages.

4. First Aid Measures

Skin Contact	Immediately wash skin with plenty of soap and water while removing contaminated clothing and shoes. Get medical attention. Contaminated clothing should be discarded in a manner which limits further exposure. If molten material contacts skin, cool rapidly with cold water. Do not attempt to peel from skin. Obtain medical attention for thermal burns.
Eyes Contact :	Immediately flush eyes with water for at least 15 minutes. Do not let victim rub eyes. Seek medical attention immediately
Ingestion :	If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5. Fire-fighting Measures

Flash Point	> 100°C / 212°F
FlammableLimits:	Not applicable
Products of Combustion:	Not Available
Fire Hazards in Presence of Various Substances:	Not Applicable
Explosion Hazards in Presence of Various Substances:	Thermal decomposition products may include oxides of carbon and nitrogen and hydrogen cyanide.
Fire Fighting Media and Instructions:	Use water spray, dry chemical, carbon dioxide, or foam extinguishing agents. Direct application of high pressure water streams may scatter burning material. As in any fire, prevent human exposure to fire, smoke, fumes, or products of combustion. Evacuate non-essential personnel from the fire area. Water runoff may cause environmental damage. Dike and collect water used to fight fires. Do not allow contaminated water to enter waterways.
Fire Fighter Instruction	Fire fighters should wear full protective gear including self-contained breathing apparatus (SCBA) with full face shield operated in positive pressure mode, and full protective clothing. Closed containers may swell and rupture when exposed to extreme heat. Water spray or fog may be used to cool containers. Avoid spraying of water directly into containers of burning material as frothing may result.
Special Remarks on Explosion Hazards:	This product is not defined as flammable or combustible. However, under fire conditions it may support combustion and decompose to give off toxic gases such as carbon monoxide, carbon dioxide and nitrogen oxides. Under non-ideal oxidizing conditions, incomplete combustion may produce hydrogen cyanide. This product is not sensitive to static discharge.

6. Accidental Release Measures

Small Spillage	Individuals involved in clean up activities must use appropriate protective equipment as listed in Section 8. This material forms slippery surfaces on floors, posing an accident risk..
Large Spillage	Isolate spill area and restrict non-essential personnel from area. All personnel involved in spill cleanup should follow good industrial hygiene practices. Use adequate ventilation and/or wear a NIOSH-approved organic vapor respirator with dust, mist, and fume filter to minimize inhalation exposure. Stop source of spill if this is possible without being injured. If the material is in a liquid phase, small spills should be absorbed with a suitable, inert material (e.g., sand or earth). Remove the absorbed material and place in an appropriate chemical waste container for disposal. Flush the spill area with detergent and water. Large spills should be diked to prevent spreading. Pump spilled material to salvage according to a predetermined plan. Remove residual material and flush spill area with detergent and water.

7. Handling and Storage

Handling	Do not breath vapors or mists.Avoid contact with eyes, skin, and clothing. Wear protective equipment when handling this product to avoid eye and skin contact. Wash thoroughly after handling.``Emptied containers may retain product residues. Follow all warnings and precautions even after container is emptied.
Storage	Store away from foodstuffs or animal feed. Containers should be stored in a cool, dry, well-ventilated area away from acidic or oxidizing materials. MAXIMUM STORAGE TEMPERATURE – 120o F/48.88o C Keep container closed. Empty containers may retain product residue, precautions apply to empty containers.
Incompatibilities	Not Applicable

8. Exposure controls and personal protection

Engineering Control	Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	
Skin Protection	It is essential that skin contact with this product be prevented through the use of impervious clothing, gloves, and footwear selected with regard for use condition exposure potential. Protective equipment made of neoprene or nitrile rubber is recommended.
Eye Protection	Because eye contact with this product may cause severe and possibly permanent damage, chemical goggles and/or a full face shield must be worn whenever handling this product.
Respiratory Protection	If use conditions (e.g., elevated temperature) generate vapors or mist, use NIOSH-approved organic vapor/acid gas respirator with dust, mist and fume filter to reduce potential for inhalation exposure. When exposure potential necessitates a higher level of protection, use a NIOSH-approved, positive-pressure/pressuredemand, air-supplied respirator. Respirator cartridges or canisters must be changed frequently (following each use or at the end of the workshift) to assure break-through exposure does not occur.
Other Precaution	Safety shower, with quick opening valves which stay open, and eye wash station should be located in exposure area. Reduce exposure by proper use of personal protective equipment. Wash hands and face before eating, drinking, or smoking. Long sleeved clothing may be used to minimize skin contact.
Exposure Limits:	No exposure limits established for this product, or individual components.



Gloves



Suit

9. Physical and chemical properties

Appearance	Semi Solid
Colour	Plae to Yellowish
Odor	Ammonia Like
Odor Threshhold	Not Available
pH	Alkaline in Water Solution
Boiling Point	>300°C (760°F) @mm Hg
Freezing / Meltin Point	35-45° C
Flash Point	>100°C / 212°F
Specific Gravity	0.82 (Wter = 1)
Evoporation Rate	No Data Available
Flammability	No Data Available
Vapour Pressure	0.1 hPa at 20°C
Vapour Density	Not Available
Solubility	Soluble in organic solvents
Solubility in Water	Not Soluble
Coefficient:n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition tempe	No Data Available
Explosive properties	No Data Available

10. Stability and reactivity

Stability of Product	The product is stable.
Instability Temperature	Not Available
Conditions of Avoid	Avoid heating directly in air
Material to Avoid	Avoid contact with strong oxidizers and strong acids. acid anhydrides, copper and copper alloys
Hazardous Decomposition	Not available.
Hazardous Polymerization	Will not occur.

11. Toxicological information

RTECS	No Data Available
LD50/LC50	No Data Available
Carcinogenicity	Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

12. Ecological information

Ecotoxicity:	Not Available
BOD5 and COD:	Not Available
Products of Biodegradation:	Not available.

13. Disposal considerations

Diaposal Condition	Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

DOT Classification:	
UN Number	2735
Proper shipping name	Amines Liquid, Corrosive n.o.s.
Class	8
Packing Group	II
IMDG	
UN Number	2735
Proper shipping name	Amines Liquid, Corrosive n.o.s.
Class	8
Packing Group	II
IATA	
UN Number	2735
Proper shipping name	Amines Liquid, Corrosive n.o.s.
Class	8
Packing Group	II

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. Regulatory information

TSCA	This material does not contain any class 2 Ozone depletors.
OSHA	None of the chemicals in this product are considered highly hazardous by OSHA.
Other Classifications:	Tallow diamine is not present on state lists from CA, PA, MN, MA, FL, or NJ. California No Significant Risk Level: None of the chemicals in this product are listed.
Clean Wter Act	None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

16. Other information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if **Rx Marine International** has been advised of the possibility of such damages.