



CHEM INTERNATIONAL

SAFETY DATA SHEET

Conforms to the requirements of the United States Hazard Communication regulation 29 CFR 1910.1200

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

PRODUCT NAME	Tallow Diamine
PRODUCT CASRN	CONFIDENTIAL
PRODUCT DESCRIPTION	FATTY POLYPROPYLENE POLYAMINES
RECOMMENDED USES	Intermediate

RESPONSIBLE PARTY

Chem International
6099 Ponders Court
Greenville, SC 29615
Telephone: 1-864-458-7868

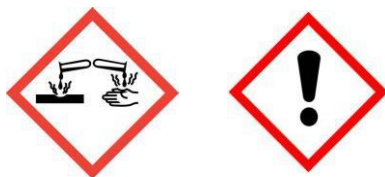
FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT:
CHEMTREC 800-424-9300 within the United States and Canada

SECTION 2: HAZARD(S) IDENTIFICATION

PRODUCT CLASSIFICATION per 29 CFR 1910.1200

HAZARD CLASSIFICATION	Skin Corrosion/Irritation Category 1B Serious Eye Damage/Eye Irritation Category 1 Acute Toxicity - Dermal Category 4 Acute Toxicity - Oral Category 4
SIGNAL WORD	Danger
HAZARD STATEMENTS	Harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage.

**HAZARD
PICTOGRAMS**



RECOMMENDED SAFETY PRECAUTIONS

INJURY PREVENTION	Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear chemical-resistant gloves and clothing, eye protection and face protection.
EMERGENCY RESPONSE	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.
PRODUCT STORAGE	Store locked up.
PRODUCT DISPOSAL	Dispose of contents and container in accordance with local, national, and international regulations for hazardous wastes.

HAZARDS NOT OTHERWISE CLASSIFIED

PYROPHORIC GASES	Not applicable
SIMPLE ASPHYXIANTS	Not applicable
COMBUSTIBLE DUST	Not applicable

Dust Classification	Minimum Ignition Energy (mJ)	Pmax (bar-g)	Rmax (bar/s)	Kst (bar-m/s)	Explosion Severity
Not Applicable					

Definitions for dust classifications are found in OSHA Instruction CPL 03-00-008 *Combustible Dust National Emphasis Program (reissued)* March 11, 2008, Appendix E, Section 5

Other Known Hazards	None
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FOR INFORMATION REGARDING ENVIRONMENTAL GHS CLASSIFICATION, REFER TO SECTION 12 BELOW

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration (%)
Confidential	N-Fatty alkyl polypropylene polyamines	Confidential	~ 100

If any items in the table above are described as CONFIDENTIAL, Chem International considers this information to constitute a Trade Secret.

SECTION 4: FIRST-AID MEASURES

EYES	Remove contact lens immediately, if present and easy to remove. Immediately flush eyes with plenty of water for at least 15 minutes. If necessary, seek medical attention.
SKIN	For skin contact, wash immediately with soap and water. If necessary, seek medical attention.
INGESTION	If the material is swallowed, get immediate medical attention or advice.
INHALATION	If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen.
SYMPTOMS of EXPOSURE	None known.
NOTES to PHYSICIAN	Provide general supportive measures and treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES	Refer to SECTION 9: Physical and Chemical Properties
HAZARDOUS PRODUCTS of COMBUSTION	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
PROPERTIES THAT COULD INCREASE FIRE or EXPLOSION HAZARD	No known hazards.
EXTINGUISHING MEDIA	Powder, alcohol-resistant foam, CO2 & sand

**FIRE-FIGHTING
INSTRUCTIONS**

Firefighters should wear full protective clothing including self-contained breathing apparatus.

NFPA ratings are found in SECTION 16

SECTION 6: ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, call Chemtrec at 800-424-9300 or 703-527-3887 for international collect calls.

RESPONSE TO SMALL SPILLS OF PRODUCT

SPILL CONTAINMENT | Stop the flow of material, if this is without risk. Contain the discharged material.

**SPILL CLEANUP
PROCEDURES** | Vacuum or sweep up material and place in a disposal container.

**REQUIRED
EQUIPMENT** | Shovel the material into waste container.

**ADDITIONAL
INFORMATION** | No other spill procedures necessary.

RESPONSE TO LARGE SPILLS OF PRODUCT

SPILL CONTAINMENT | Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent liquid from entering sewers. Keep out of drains and water courses.

**SPILL CLEANUP
PROCEDURES** | Eliminate ignition sources including sources of electrical, static or frictional sparks. Avoid the generation of dusts during clean-up. Use water mist on the spilled material to wet surfaces and prevent dusting. Vacuum or sweep up material and place in a disposal container. Thoroughly wash the area with water after a spill or leak clean-up.

**REQUIRED
EQUIPMENT** | Wear appropriate protective equipment and clothing during clean-up.

**ADDITIONAL
INFORMATION** | Surfaces may become slippery after spillage. Have emergency equipment readily available. Remove soiled clothing and laundry before reuse.

SECTION 7: HANDLING AND STORAGE

**HANDLING
REQUIREMENTS**

As with all chemicals, good industrial hygiene practices should be followed when handling this material. Do not get this material in your eyes, on your skin, or on your clothing. Wash thoroughly after handling. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or promptly disposed of.

STORAGE REQUIREMENTS

Do not store this material in open or unlabeled containers.
Storage area should be protected by appropriately designed containment to prevent release to groundwater or sewers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT**EYE/FACE PROTECTION**

Wear chemical goggles and face shield.

HAND PROTECTION

Use impervious gloves.

SKIN PROTECTION

Normal work clothing (long sleeved shirts and long pants) is recommended.

RESPIRATORY PROTECTION

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever there may be potential for airborne exposure.

OTHER

Eyewash fountains and emergency showers are required.

EXPOSURE LIMITS

CHEMICAL	CASRN	PERCENT	LIMITS	AGENCY
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OSHA: No exposure limits established for this product

ACGIH: No exposure limits established for this product

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE @ 20°C	Off-White Solid	ODOR	Amine odor
ODOR THRESHOLD	No data available	pH	No information available
VAPOR DENSITY	No data available	VAPOR PRESSURE	No data available
EVAPORATION RATE	No data available	RELATIVE DENSITY	0.84g/mL @ 35°C
MELTING POINT (°C)	35°C	WATER SOLUBILITY	No data available.
INITIAL BOILING POINT (°C)	No data available	BOILING RANGE (°C)	No data available

PARTITION COEFFICIENT (N-OCTANOL/WATER)	No data available	VISCOSITY	No data available
DECOMPOSITION TEMPERATURE	No data available	FLAMMABILITY CLASSIFICATION	CLASS IIIB
FLASH POINT (°C)	140°C PENSKE-MARTENS CLOSED CUP	AUTO-IGNITION TEMPERATURE	No data available
UPPER EXPLOSIVE LIMIT	No data available	LOWER EXPLOSIVE LIMIT	No data available

SECTION 10: STABILITY and REACTIVITY

CHEMICAL STABILITY | Stable under normal conditions.

CONDITIONS to AVOID | None known

INCOMPATIBLE MATERIALS (Reactivity) | None known.

INCOMPATIBLE MATERIALS (Storage & Transport) | Avoid contact with strong acids

HAZARDOUS DECOMPOSITION PRODUCTS | None known.

HAZARDOUS POLYMERIZATION | Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

EYE EFFECTS | This product is severely irritating to the eyes.

SKIN EFFECTS | This product is severely irritating to the skin.

ACUTE ORAL EFFECTS (INGESTION) | Not a likely route of entry.

ACUTE INHALATION EFFECTS | This product may cause slight irritation to the respiratory system.

TARGET ORGANS | No known effects.

CHRONIC EFFECTS

TERATOLOGY | No data available for this product.

REPRODUCTIVE and DEVELOPMENTAL TOXICITY | No information available.

CARINOGENICITY

CHEMICAL NAME	DATA	AGENCY	LIST
None of the components of this product are listed on the OSHA Possible or Select Carcinogens Lists. None of the components of this product are listed on the ACGIH Carcinogens List. No limits established for this product by the International Agency for Research on Cancer (IARC). None of the components of this product are listed on the NTP Known or Suspected Carcinogens List.			

LETHAL DOSE (LD50 & LC50) DATA

LD50 ORAL | LD50 Oral Rat: 945 mg/kg

MEDICAL CONDITIONS AGGRAVATED by EXPOSURE | No information available.

ROUTES of ENTRY | Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

SECTION 12: ECOLOGICAL INFORMATION

UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION

AQUATIC TOXICITY CLASSIFICATION | Not classified as hazardous to aquatic environment

SIGNAL WORD | Not applicable

HAZARD PICTOGRAM	Not applicable
HAZARD STATEMENT	Not applicable
PREVENTION	Not applicable
RESPONSE	Not applicable
DISPOSAL	Not applicable

ADDITIONAL ENVIRONMENTAL INFORMATION

ECOTOX. INFORMATION	None determined
ENVIRONMENTAL FATE	No data available for this product.
BIOLOGICAL OXYGEN DEMAND (BOD5), g/g	No data available
CHEMICAL OXYGEN DEMAND (COD), g/g	No data available
PERSISTENCE & DEGRADABILITY	No information available.
BIOACCUMULATION	No information available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DESCRIPTION	Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.
GENERAL DISPOSAL CONSIDERATIONS	Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.
DISPOSAL of EMPTY CONTAINERS	Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

RCRA COMPONENT	CASRN	DATA
No limits established for this product.		

SECTION 14: TRANSPORT INFORMATION

	US DOT	IATA	IMDG
UN NUMBER	UN3259	UN3259	UN3259
UN PROPER SHIPPING NAME	Amines, solid, corrosive, n.o.s.	Amines, solid, corrosive, n.o.s.	Amines, solid, corrosive, n.o.s.
TECHNICAL NAME	contains N-tallow alkyl polyamines	contains N-tallow alkyl polyamines	contains N-tallow alkyl polyamines
TRANSPORT HAZARD CLASS(ES)	8	8	8
PACKING GROUP	III	III	III
REPORTABLE QUANTITY (RQ)	No reportable quantity for this product		
EMERGENCY RESPONSE GUIDEBOOK (ERG) REFERENCE	154		
MARINE POLLUTANT	None		

SECTION 15: REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA)	This product is listed on the U.S. EPA TSCA Inventory.
EXPORT NOTIFICATIONS	This product is not subject to TSCA 12B Export Notification requirements.
SIGNIFICANT NEW USE RULE (SNUR)	This material is not subject to a Significant New Use Rule under the US Toxic Substances Control Act.

INTERNATIONAL CHEMICAL INVENTORIES

All of the components of this product are listed on the following inventories:

DSL	Canada	Yes
NDSL	Canada	No
ENCS	Japan	Yes
EINECS	Europe	Yes
ELINCS	Europe	No

IECSC	China	Yes
PICCS	Philippines	Yes
ECL	Korea	Yes
AICS	Australia	Yes

**EMERGENCY PLANNING and COMMUNITY RIGHT TO KNOW ACT (EPCRA)
40 CFR PART 355, APPENDIX A**

EHS COMPONENTS	CASRN	PERCENT	TPQ POUNDS and RQ
No limits established for this product.			

313 COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
No limits established for this product.			

CERCLA/SARA COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
No limits established for this product.			

EPCRA SECTION 311/312 CLASSIFICATION	ACUTE	Yes
	CHRONIC	No
	FIRE	No
	PRESSURE	No
	REACTIVE	No

OTHER FEDERAL REGULATIONS

The following components are identified under the Clean Air Act HON-Rule for SOCMIs chemicals:

COMPONENT NAME	CASRN
No regulated components	

The following components are identified under the Clean Air Act (VOCs in SOCMIs chemicals):

COMPONENT NAME	CASRN
No regulated components	

The following components are identified under the Clean Air Act as Hazardous Air Pollutants (HAP)

COMPONENT NAME	CASRN
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No regulated components

The following components are identified under the Clean Air Act HON-Rule Hazardous Air Pollutants (HAP)

COMPONENT NAME	CASRN
No regulated components	

The following components are identified under the Clean Water Act:

COMPONENT NAME	CASRN	LIST NAME
No limits established for this product.		

STATE RIGHT-TO-KNOW INFORMATION:

COMPONENT NAME	CASRN	STATE	List Name
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If the STATE RIGHT-TO-KNOW INFORMATION table above is empty than none of the components of this product are included on the state right-to-know regulatory lists for California, Florida, Massachusetts, Michigan, Pennsylvania, or New Jersey.

SECTION 16: OTHER INFORMATION

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.

DATE PREPARED	5/13/2015
REVISION DATE	9/28/2018 (date only)

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0

Hazardous Material Identification System (HMIS) Hazard Ratings

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	H

The following components of this product are listed on the Canadian WHMIS Ingredient Disclosure List (IDL):

COMPONENT	CASRN	PERCENT	MINIMUM CONCENTRATION
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No regulatory limits established for this product.

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