

## 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

<b>PRODUCT NAME</b>	<b>FARMIN 20D</b>
<b>PRODUCT CASRN</b>	<b>124-22-1</b>
<b>PRODUCT DESCRIPTION</b>	ALIPHATIC AMINE
<b>SDS DOCUMENT No.</b>	K02252
<b>RECOMMENDED USES</b>	Product is intended for use as a raw material in chemical manufacturing

#### RESPONSIBLE PARTY

Kao Specialties Americas LLC  
243 Woodbine Street  
P. O. Box 2316  
High Point, NC 27261  
Telephone: 1-800-727-2214

**Refer to SECTION 16 for information regarding the MANUFACTURER(s) of this product**

**FOR ALL TRANSPORTATION ACCIDENTS, call Chemtrec at 1-800-424-9300 or +1-703-741-5970 for international collect calls (in Mexico, call 800-681-9531)**

### SECTION 2: HAZARD(S) IDENTIFICATION

#### PRODUCT CLASSIFICATION per 29 CFR 1910.1200

<b>HAZARD CLASSIFICATION</b>	Substance or mixture corrosive to metals Category 1 Skin Corrosion/Irritation Category 1B Serious Eye Damage/Eye Irritation Category 1 Acute Toxicity - Oral Category 4
<b>SIGNAL WORD</b>	Danger
<b>HAZARD STATEMENTS</b>	May be corrosive to metals Harmful if swallowed Causes severe skin burns and eye damage

#### HAZARD PICTOGRAMS



## RECOMMENDED SAFETY PRECAUTIONS

<b>INJURY PREVENTION</b>	Keep only in original container. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
<b>EMERGENCY RESPONSE</b>	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. 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 Control Center or doctor if symptoms develop or otherwise unwell. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.
<b>PRODUCT STORAGE</b>	Store locked up. Store in corrosive resistant container with a resistant inner liner.
<b>PRODUCT DISPOSAL</b>	Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

## HAZARDS NOT OTHERWISE CLASSIFIED

<b>PYROPHORIC GASES</b>	Not applicable
<b>SIMPLE ASPHYXIANTS</b>	Not applicable
<b>COMBUSTIBLE DUST</b>	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*

<b>Other Known Hazards</b>	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 (%)
1-Dodecanamine	lauryl amine	124-22-1	~ 100

If any items in the table above are described as CONFIDENTIAL, Kao Specialties Americas LLC considers this information to constitute a Trade Secret.

## SECTION 4: FIRST-AID MEASURES

<b>EYES</b>	Flush immediately with water for at least 15 minutes. Do not rub eyes. Remove contact lens immediately, if present and easy to remove. SEEK IMMEDIATE MEDICAL ATTENTION ONCE THE EXPOSED PERSON IS SAFE TO TRANSPORT.
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<b>SKIN</b>	Immediately take off all contaminated clothing. For small exposure, wash affected area with 2% acetic acid solution until the slimy feeling disappears. Follow acid wash with flushing the exposed area with copious amount of water. For large exposure, use safety shower to flush the affected area with heavy flow of water. SEEK MEDICAL ATTENTION IMMEDIATELY. If medical attention is not immediately available, contact POISON CONTROL CENTER (1-800-222-1222).
<b>INGESTION</b>	If the material is swallowed, get immediate medical attention or advice.
<b>INHALATION</b>	If inhaled, immediately remove the affected person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. If symptoms persist, get medical attention.
<b>SYMPTOMS of EXPOSURE</b>	Skin contact: exposure to this product will result in rash and irritation. Deep-tissue chemical burn will develop slowly over a period of hours if the material is not promptly removed from the affected area. Eyes: symptoms include itching, burning, redness and tearing. Respiratory: symptoms may include burning sensation in the upper respiratory system, shortness of breath, and choking/coughing.
<b>NOTES to PHYSICIAN</b>	Provide general supportive measures and treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

<b>FLAMMABLE PROPERTIES</b>	<b>Refer to SECTION 9: Physical and Chemical Properties</b>
<b>HAZARDOUS PRODUCTS of COMBUSTION</b>	Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product may yield poisonous gases including oxides of nitrogen, hydrogen gas and ammonia.
<b>PROPERTIES THAT COULD INCREASE FIRE or EXPLOSION HAZARD</b>	Vapors can travel to a source of ignition and flash back.
<b>EXTINGUISHING MEDIA</b>	Powder, alcohol-resistant foam, CO2 & sand
<b>FIRE-FIGHTING INSTRUCTIONS</b>	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 1-800-424-9300 or +1-703-741-5970 for international collect calls (in Mexico, call 800-681-9531)**

### RESPONSE TO SMALL SPILLS OF PRODUCT

<b>SPILL CONTAINMENT</b>	Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.
<b>SPILL CLEANUP PROCEDURES</b>	Wear appropriate protective equipment and clothing during clean-up. Ventilate the contaminated area. Absorb spill with inert material. Shovel material into appropriate container for disposal.
<b>REQUIRED EQUIPMENT</b>	Shovel the material into waste container.
<b>ADDITIONAL INFORMATION</b>	No other spill procedures necessary.

### RESPONSE TO LARGE SPILLS OF PRODUCT

<b>SPILL CONTAINMENT</b>	Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Dike the spilled material, where this is possible. Stop source of leak if possible. Prevent liquid from entering sewers. Keep out of drains and water courses.
<b>SPILL CLEANUP PROCEDURES</b>	Ventilate the contaminated area. Absorb spill with inert material. Shovel material into appropriate container for disposal. Thoroughly wash the area with water after a spill or leak clean-up. For very large spills, activate company or local HAZMAT emergency response. Use of properly trained remediation company may be required to safely collect the spilled product.
<b>REQUIRED EQUIPMENT</b>	Wear appropriate protective equipment and clothing during clean-up.

**ADDITIONAL INFORMATION**

No other spill procedures necessary.

**SECTION 7: HANDLING AND STORAGE****HANDLING REQUIREMENTS**

Use this product with adequate ventilation. Use a NIOSH-approved respirator if exposed to oil mist, and adequate ventilation is not available. Avoid getting this material into contact with your skin and eyes. Appropriate neutralizing solution should be immediately available whenever skin contact is possible (see SECTION 4: FIRST AID MEASURES). Keep away from sources of ignition.

**STORAGE REQUIREMENTS**

Storage area should be protected by appropriately designed containment to prevent release to groundwater or sewers.  
Eliminate all sources of ignition.  
Keep the container tightly closed and in a cool, well-ventilated place.  
Do not mix storage with incompatible materials. Store containers away from acids and strong oxidizing agents.  
If product is stored in bulk, nitrogen padding is recommended.

**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** | If handling procedure does not require respiratory protection, chemical splash goggles and full-face shield are recommended when handling this product.

**HAND PROTECTION** | Impervious gloves should be used at all times when handling this product.

**SKIN PROTECTION** | Use of protective coveralls and long sleeves is recommended. Impervious gloves should be used at all times when handling this product.

**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
<b>OSHA:</b>	No exposure limits established for this product			
<b>ACGIH:</b>	No exposure limits established for this product			

**SECTION 9: PHYSICAL and CHEMICAL PROPERTIES**

<b>APPEARANCE @ 20°C</b>	White solid - liquid in summer (over 20°C)	<b>ODOR</b>	Amine odor
<b>ODOR THRESHOLD</b>	No data available	<b>pH</b>	No data available
<b>VAPOR DENSITY</b>	No data available	<b>VAPOR PRESSURE</b>	5.25 mmHg @ 112°C
<b>EVAPORATION RATE</b>	No data available	<b>RELATIVE DENSITY</b>	0.795g/mL @ 30°C
<b>MELTING POINT (°C)</b>	23°C - 27°C	<b>WATER SOLUBILITY</b>	Insoluble in water
<b>INITIAL BOILING POINT (°C)</b>	259°C	<b>BOILING RANGE (°C)</b>	No data available
<b>PARTITION COEFFICIENT (N-OCTANOL/WATER)</b>	No data available	<b>VISCOSITY</b>	No data available
<b>DECOMPOSITION TEMPERATURE</b>	No data available	<b>FLAMMABILITY CLASSIFICATION</b>	CLASS IIIB

<b>FLASH POINT (°C)</b>	123°C Cleveland Open Cup	<b>AUTO-IGNITION TEMPERATURE</b>	No data available
<b>UPPER EXPLOSIVE LIMIT</b>	No data available	<b>LOWER EXPLOSIVE LIMIT</b>	No data available
<b>OTHER DATA</b>	No data available		

## SECTION 10: STABILITY and REACTIVITY

<b>CHEMICAL STABILITY</b>	Stable under normal conditions.
<b>CONDITIONS to AVOID</b>	Use suitable technology and/or best work practices to prevent or minimize air emissions of this product.
<b>INCOMPATIBLE MATERIALS (Reactivity)</b>	This product reacts with acids.
<b>INCOMPATIBLE MATERIALS (Storage &amp; Transport)</b>	Avoid contact with acids, acid anhydrides, oxidizing agents, copper and copper alloys.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	None known.
<b>HAZARDOUS POLYMERIZATION</b>	Will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

### ACUTE EFFECTS

<b>ORAL (LD50)</b>	Product: Rat > 1020 mg/kg	(acute toxicity estimate)
<b>COMMENT</b>	Not applicable	
<b>DERMAL (LD50)</b>	Product: No data available for this product.	
<b>COMMENT</b>	Not applicable	
<b>INHALATION (LC50)</b>	Product: No data available for this product.	
<b>COMMENT</b>	Concentration of ingredients of unknown inhalation toxicity: 100 %	

### OTHER TOXICOLOGICAL EFFECTS

<b>SERIOUS EYE DAMAGE &amp; IRRITATION</b>	Ingredient: Category 1	(data on laurylamine)
<b>SKIN CORROSION &amp; IRRITATION</b>	Ingredient: No data available for this product. Category 1	(data on laurylamine)
<b>SKIN SENSITIZATION</b>	Product: No data available for this product.	
<b>RESPIRATORY SENSITIZATION</b>	Product: No data available for this product.	
<b>MUTAGENICITY</b>	Ames Test (TA98, TA100) Negative	
<b>REPRODUCTIVE TOXICITY – MATERNAL</b>	Product: No data available for this product.	

<b>REPRODUCTIVE TOXICITY – FERTILITY</b>	Product: No data available for this product.
<b>REPRODUCTIVE TOXICITY – DEVELOPMENTAL</b>	Product: No data available for this product.
<b>TERATOGENICITY</b>	Product: No data available for this product.
<b>STOT – SINGLE EXPOSURE</b>	Product: No data available for this product.
<b>STOT – REPEATED EXPOSURE</b>	Product: No data available for this product.
<b>ASPIRATION HAZARD</b>	Product: No data available for this product.
<b>ADDITIONAL INFORMATION</b>	Skin Corrosion/Irritation: Rabbit, 750 ug/24Hr: Severe (data on laurylamine) Serious Eye Damage/Irritation: Rabbit, 50 ug/24hr: Severe (data on laurylamine)


### CARCINOGENICITY

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.			

<b>MEDICAL CONDITIONS AGGRAVATED by EXPOSURE</b>	No information available.
<b>ROUTES OF ENTRY</b>	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

<b>AQUATIC TOXICITY CLASSIFICATION</b>	Acute 1 Chronic 1
<b>SIGNAL WORD</b>	Warning
<b>HAZARD PICTOGRAM</b>	
<b>HAZARD STATEMENT</b>	Very toxic to aquatic life Very toxic to aquatic life with long lasting effects
<b>PREVENTION</b>	Avoid release to the environment.
<b>RESPONSE</b>	Collect spillage.
<b>DISPOSAL</b>	Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

### ADDITIONAL ENVIRONMENTAL INFORMATION

<b>AQUATIC TOXICITY (fish)</b>	No information available
<b>AQUATIC TOXICITY (crustacean)</b>	No information available

<b>AQUATIC TOXICITY (algae)</b>	No information available
<b>AQUATIC TOXICITY (other data)</b>	No information available
<b>ECOTOXICITY INFORMATION</b>	None determined
<b>ENVIRONMENTAL FATE</b>	No data available for this product.
<b>BIOLOGICAL OXYGEN DEMAND (BOD5), g/g</b>	No data available
<b>CHEMICAL OXYGEN DEMAND (COD), g/g</b>	No data available
<b>PERSISTENCE &amp; DEGRADABILITY</b>	No information available.
<b>BIOACCUMULATION</b>	No information available.


### SECTION 13: DISPOSAL CONSIDERATIONS

<b>WASTE DESCRIPTION</b>	Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.
<b>GENERAL DISPOSAL CONSIDERATIONS</b>	Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.
<b>DISPOSAL of EMPTY CONTAINERS</b>	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 CLASSIFICATION (49 CFR §172.101)

UN NUMBER	UN PROPER SHIPPING NAME	TECHNICAL NAME	HAZARD CLASS	PACKING GROUP	SHIPPING PLACARD
UN3259	Amines, solid, corrosive, n.o.s.	containing 1-Dodecylamine	8	II	

<b>MARINE POLLUTANT</b>	This material is a MARINE POLLUTANT. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes. See 49 CFR 171.4 for more information about these exemptions.
<b>SPECIAL PROVISIONS (§172.102)</b>	IB8, IP2, IP4, T3, TP33
<b>PACKAGING, BULK (§173.***)</b>	240
<b>PACKAGING, NON-BULK (§173.***)</b>	212
<b>PACKAGING, EXCEPTIONS (§173.***)</b>	154

QUANTITY LIMITATION, PASSENGER AIR/RAIL	15 kg
QUANTITY LIMITATION, CARGO AIR	50 kg
VESSEL STOWAGE, GENERAL	Material may be stowed "on deck" or "under deck" on a cargo vessel or on a passenger vessel.
VESSEL STOWAGE SPECIAL	Stow "separated from" acids.
REPORTABLE QUANTITY (RQ)	No reportable quantity for this product
EMERGENCY RESPONSE GUIDEBOOK (ERG) REFERENCE	154

### INTERNATIONAL BULK SHIPPING REQUIREMENTS (MARPOL 73/78)

SHIPPING NAME	No information available
SHIP TYPE	No information available
POLLUTION CATEGORY	No information available

### OTHER REGULATORY CLASSIFICATION INFORMATION

	IATA	IMDG
PROPER SHIPPING NAME	Amines, solid, corrosive, n.o.s.	Amines, solid, corrosive, n.o.s.
TECHNICAL NAME	containing 1-Dodecylamine	containing 1-Dodecylamine
UN NUMBER	UN3259	UN3259
HAZARD CLASS	8	8
PACKING GROUP	II	II

## SECTION 15: REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA)	This product is listed on the U.S. EPA TSCA Inventory.
TSCA 12b EXPORT NOTIFICATION (US)	This product is not subject to TSCA 12B Export Notification requirements. ()
SIGNIFICANT NEW USE RULE (US)	This material is not subject to a Significant New Use Rule under the US Toxic Substances Control Act.
TSCA 8b INVENTORY RESET STATUS (US)	All substances present in this product have been designated as commercially ACTIVE on the United States TSCA inventory {15 U.S.C. §2607(b)(4)}
DOMESTIC SUBSTANCE LIST (DSL - CA)	All components are listed on the Domestic Substances List (DSL) or are exempt from the requirements to notify.
HAZARDOUS MATERIALS INFORMATION REVIEW ACT (CA)	This product does not contain any materials for which a Confidential Business Information claim has been filed with Health Canada. Filing Date: Not applicable Reference Number: Not applicable
SIGNIFICANT NEW USE ACTIVITIES (CA)	The product contains no regulated components
NATIONAL INVENTORY of CHEMICAL SUBSTANCES (MX)	All components are listed on the National Inventory of Chemical Substances (INSQ) or are exempt from the requirements to notify.



**INTERNATIONAL CHEMICAL INVENTORIES**

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

<b>ENCS</b>		Japan		Yes	Registry No. 2-133
<b>REACH</b>		Europe		No	
<b>EINECS</b>		Europe		Yes	Registry No. 204-690-6
<b>ELINCS</b>		Europe		No	
<b>IECSC</b>		China		Yes	
<b>PICCS</b>		Philippines		No	
<b>ECL</b>		Korea		Yes	Registry No. KE-12825
<b>AICS</b>		Australia		Yes	
<b>TCSI</b>		Taiwan		Yes	

**APPLICABLE UNITED STATES FEDERAL and STATE REGULATIONS**

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

EHS COMPONENTS	CASRN	PERCENT	TPQ POUNDS and RQ
The product contains no regulated components			

313 COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
The product contains no regulated components			

CERCLA/SARA COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
The product contains no regulated components			

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

**THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT HON-RULE FOR SOCMI CHEMICALS**

COMPONENT NAME	CASRN
The product contains no regulated components	

**THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT (VOCs IN SOCMI CHEMICALS)**

COMPONENT NAME	CASRN
The product contains no regulated components	

**THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT AS HAZARDOUS AIR POLLUTANTS**

**(HAP)**

COMPONENT NAME	CASRN
The product contains no regulated components	

**THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT HON-RULE HAZARDOUS AIR POLLUTANTS (HAP)**

COMPONENT NAME	CASRN
The product contains no regulated components	

**THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US 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 Florida, Massachusetts, Michigan, Pennsylvania, or New Jersey.

**CALIFORNIA SAFE WATER and TOXIC ENFORCEMENT ACT of 1986 (Proposition 65)**

COMPONENT NAME	CASRN	CONCENTRATION <sup>f</sup>	LIST DATA
This product contains no components which are listed on California's Proposition 65 lists.			

**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.

<b>SDS GENERATED BY</b>	PSIMCOX
<b>SDS VERSION DATE</b>	11/3/2021 8:29:37 AM
<b>SDS APPROVED BY</b>	Patrick B. Simcox Manager – Health, Safety, & Environmental e-mail: Patrick.Simcox@kao.com
<b>MANUFACTURER(S)</b>	Kao Corporation 1-3, Bunka 2-chome, Sumida-ku Tokyo, Japan 131-8501 Phone: 011-81-3-5630-7700

**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	F

**END OF DOCUMENT**