## **Kao Specialties Americas LLC**

243 Woodbine Street • PO Box 2316 • High Point, NC 27261 USA Phone 336-884-2214 • Fax 336-884-8786



# 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 FARMIN DM2098

PRODUCT CASRN 112-18-5

**PRODUCT DESCRIPTION** TERTIARY FATTY AMINES

SDS DOCUMENT No. K02135

**RECOMMENDED USES**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

Substance or mixture corrosive to metals Category 1

HAZARD CLASSIFICATION Skin Corrosion/Irritation Category 1B

Serious Eye Damage/Eye Irritation Category 1

Acute Toxicity - Oral Category 4

SIGNAL WORD Danger

May be corrosive to metals

HAZARD STATEMENTS Harmful if swallowed

Causes severe skin burns and eye damage

HAZARD PICTOGRAMS





## **RECOMMENDED SAFETY PRECAUTIONS**

Keep only in original container.

Do not breathe dust/fume/gas/mist/vapours/spray.

INJURY PREVENTION Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

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.

EMERGENCY RESPONSE 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. Absorb spillage to prevent material damage. Wash contaminated clothing before reuse.

PRODUCT STORAGE Store locked up.

Store in corrosive resistant container with a resistant inner liner.

PRODUCT DISPOSAL

Dispose of contents/container in accordance with local/regional/national/international regulation for

hazardous wastes.

## HAZARDS NOT OTHERWISE CLASSIFIED

PYROPHORIC GASES | Not applicable
SIMPLE ASPHYXIANTS | Not applicable

COMBUSTIBLE DUST Not applicable

<b>Dust Classification</b>	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

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, N,N-dimethyl-	Lauryl dimethylamine	112-18-5	~ 100
1-Decanamine, N,N-dimethyl-	Decyl dimethylamine	1120-24-7	0.05
1-Tetradecanamine, N,N-dimethyl-	Tetradecyl dimethylamine	112-75-4	0.05

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**

Product: FARMIN DM2098 SDS ID: K02135 Effective Date: 11-03-2021

Effective Date: 11-03-2021 Created Date: 10-15-1999

Flush immediately with water for at least 15 minutes. Do not rub eyes. Remove contact lens immediately, **EYES** 

if present and easy to remove. SEEK IMMEDIATE MEDICAL ATTENTION ONCE THE EXPOSED PERSON IS

SAFE TO TRANSPORT.

Immediately take off all contaminated clothing. SEEK MEDICAL ATTENTION IMMEDIATELY. If medical

attention is not immediately available, contact POISON CONTROL CENTER (1-800-222-1222). For small exposure, wash affected area with 2% acetic acid solution until the slimy feeling disappears. Follow acid

shower to flush the affected area with heavy flow of water.

INGESTION If the material is swallowed, get immediate medical attention or advice.

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

wash with flushing the exposed area with copious amount of water. For large exposure, use safety

attention.

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.

SYMPTOMS of EXPOSURE Eyes: symptoms include itching, burning, redness and tearing.

Respiratory: symptoms may include burining sensation in the upper respiratory system, shortness of

breath, and choking/coughing.

**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

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.

PROPERTIES THAT COULD INCREASE FIRE or **EXPLOSION HAZARD** 

Vapors can travel to a source of ignition and flash back.

**EXTINGUISHING MEDIA** Powder, alcohol-resistant foam, CO2 & sand

FIRE-FIGHTING INSTRUCTIONS

SPILL CLEANUP

SKIN

INHALATION

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**

Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. **SPILL CONTAINMENT** 

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Wear appropriate protective equipment and clothing during clean-up. Ventilate the contaminated area. **PROCEDURES** Absorb spill with inert material. Shovel material into appropriate container for disposal.

REQUIRED EQUIPMENT Shovel the material into waste container.

ADDITIONAL No other spill procedures necessary. INFORMATION

# RESPONSE TO LARGE SPILLS OF PRODUCT

SPILL CONTAINMENT

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.

SPILL CLEANUP PROCEDURES

Ventilate the contaminated area. Absorb spill with inert material. Shovel material into appropriate container for disposal. Wear appropriate protective equipment and clothing during clean-up. 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.

REQUIRED EQUIPMENT

No additional information on equipment.

ADDITIONAL INFORMATION

No other spill procedures necessary.

## **SECTION 7: HANDLING AND STORAGE**

## HANDLING REQUIREMENTS

STORAGE 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.

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.

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 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 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**

**PROTECTION** 

CHEMICAL CASRN PERCENT LIMITS AGENCY

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 Clear liquid **ODOR** Amine odor No data available No data available **ODOR THRESHOLD** рН No data available 300 Pa @ 104°C VAPOR DENSITY **VAPOR PRESSURE EVAPORATION RATE** No data available RELATIVE DENSITY 0.787 @ 20°C MELTING POINT (°C) -24°C WATER SOLUBILITY Insoluble in water **INITIAL BOILING POINT** 272°C **BOILING RANGE (°C)** No data available (°C)

Product: FARMIN DM2098

SDS ID: K02135 Effective Date: 11-03-2021 Created Date: 10-15-1999 PARTITION COEFFICIENT (N-OCTANOL/WATER)

No data available VISCOSITY 4mPa-s @ 20°C

DECOMPOSITION

No data available

FLAMMABILITY

CLASS IIIB

TEMPERATURE CLASSIFICATION CLASSIFICATION

FLASH POINT (°C)

130°C
Cleveland Open Cup

AUTO-IGNITION
TEMPERATURE

No data available

UPPER EXPLOSIVE LIMIT No data available LOWER EXPLOSIVE LIMIT No data available

OTHER DATA No data available

# SECTION 10: STABILITY and REACTIVITY

CHEMICAL STABILITY Stable under normal conditions.

**CONDITIONS to AVOID** Use suitable technology and/or best work practices to prevent or minimize air emissions of this product.

INCOMPATIBLE
MATERIALS (Reactivity)

This product reacts with acids.

INCOMPATIBLE

MATERIALS (Storage & Avoid contact with acids, acid anhydrides, oxidizing agents, copper and copper alloys. Transport)

HAZARDOUS

HAZARDOUS
DECOMPOSITION None known.

HAZARDOUS
POLYMERIZATION
Will not occur.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

**ACUTE EFFECTS** 

**PRODUCTS** 

ORAL Ingredient: Rat > 1200 mg/kg (data on dodecylamine; source - OECD SIDS)
(LD50) Ingredient: Rat : 740 mg/kg (data on lauryldimethylamine; source - IUCLID)

COMMENT Not applicable

DERMAL (LD50) Product: Rabbit > 5000 mg/kg

COMMENT Not applicable

INHALATION (LC50) Product: No data available for this product.

**COMMENT** Concentration of ingredients of unknown inhalation toxicity: 100 %

## OTHER TOXICOLOGICAL EFFECTS

SERIOUS EYE
DAMAGE & Product: No data available for this product.
IRRITATION

SKIN CORROSION 2

& IRRITATION Product: No data available for this product.

SKIN
SENSITIZATION
Product: No data available for this product.

RESPIRATORY
SENSITIZATION
Product: No data available for this product.

MUTAGENCITY Ames Test (TA98, TA100) Negative

Product: FARMIN DM2098 SDS ID: K02135 Effective Date: 11-03-2021 Created Date: 10-15-1999

SDS ID: K02135
Effective Date: 11-03-2021
Page 5 of 11

REPRODUCTIVE
TOXICITY – Product: No data available for this product.

MATERNAL

REPRODUCTIVE
TOXICITY – Product: No data available for this product.

FERTILITY
REPRODUCTIVE

TOXICITY – Product: No data available for this product.

TERATOGENCITY Pro

Product: No data available for this product.

STOT – SINGLE EXPOSURE

Product: No data available for this product.

STOT – REPEATED

EXPOSURE

Product: No data available for this product.

**ASPIRATION** 

HAZARD

Product: No data available for this product.

# **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.

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 Acute 1
CLASSIFICATION Chronic 1
SIGNAL WORD Warning

HAZARD PICTOGRAM



HAZARD STATEMENT

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

**PREVENTION** Avoid release to the environment.

RESPONSE Collect spillage.

Dispose of contents/container in accordance with local/regional/national/international regulation for

hazardous wastes.

# ADDITIONAL ENVIRONMENTAL INFORMATION

AQUATIC TOXICTY (fish) 96 hr LC50 Rainbow Trout = 0.57 mg/L 96 hr LC50 Zebrafish : 0.71 - 1 mg/L [static]

Product: FARMIN DM2098 SDS ID: K02135

Effective Date: 11-03-2021 Created Date: 10-15-1999 AQUATIC TOXICITY (crustacean) No information available

AQUATIC TOXICITY (algae) No information available

AQUATIC TOXICTY (other

data)

No information available

ECOTOXICITY None determined

**ENVIRONMENTAL FATE** This product is Readily Biodegradable.

BIOLOGICAL OXYGEN
DEMAND (BOD5), g/g

0.

0.82 g/g

CHEMICAL OXYGEN DEMAND (COD), g/g

2.03 g/g

PERSISTENCE & DEGRADABILITY

CO2 evolution test (OECD301B): 72 % (28 days)

BIOACCUMLATION 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 CLASSIFICATION (49 CFR §172.101)

UN	UN PROPER	TECHNICAL NAME	HAZARD	PACKING	CHIRDING DI ACARD	
NUMBER	SHIPPING NAME	TECHNICAL NAIVIE	TECHNICAL NAME CLASS GR	GROUP	SHIPPING PLACARD	
UN2735	Amines, liquid, corrosive, n.o.s.	containing Alkyl(C12- C14) dimethylamines	8	II	CORROSIVE	

This material is a MARINE POLLUTANT. The marine pollutant mark is not required when transported on inland waterways in sizes of  $\leq$ 5 L or  $\leq$ 5 kg or by road, rail, or inland air in non-bulk sizes. See 49 CFR 171.4 for more

information about these exemptions.

**SPECIAL PROVISIONS** 

(§172.102)

B2, IB2, T11, TP1, TP27

PACKAGING, BULK

(§173.\*\*\*)

242

PACKAGING, NON-BULK

(§173.\*\*\*)

202

PACKAGING,

154

Product: FARMIN DM2098 SDS ID: K02135

Effective Date: 11-03-2021 Created Date: 10-15-1999 **EXCEPTIONS (§173.\*\*\*)** 

QUANTITY LIMITATION, PASSENGER AIR/RAIL

1 L

QUANTITY LIMITATION,

**CARGO AIR** 

30 L

**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

153

### **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, liquid, corrosive, n.o.s.	Amines, liquid, corrosive, n.o.s.
TECHNICAL NAME	containing Alkyl(C12-C14) dimethylamines	containing Alkyl(C12-C14) dimethylamines
UN NUMBER	UN2735	UN2735
HAZARD CLASS	8	8
PACKING GROUP	П	П

# **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. ()

This material is not subject to a Significant New Use Rule under the US Toxic Substances SIGNIFICANT NEW USE RULE (US)

Control Act.

All substances present in this product have been designated as commercially ACTIVE on TSCA 8b INVENTORY RESET STATUS (US)

the United States TSCA inventory {15 U.S.C. §2607(b)(4)}

All components are listed on the Domestic Substances List (DSL) or are exempt from the **DOMESTIC SUBSTANCE LIST (DSL - CA)** 

requirements to notify.

This product does not contain any materials for which a Confidential Business HAZARDOUS MATERIALS INFORMATION

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)

**REVIEW ACT (CA)** 

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:

ENCS	Japan	Yes	Registry No. 2-176
REACH	Europe	Yes	Intermediate
EINECS	Europe	Yes	Registry No. 203-943-8
ELINCS	Europe	No	
IECSC	China	Yes	
PICCS	Philippines	Yes	
ECL	Korea	Yes	Registry No. KE-11504
AICS	Australia	Yes	
TCSI	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 COMPO	NENTS	CASRN	PERCENT	TPQ POUNDS and RQ
The product contains no i	regulated			
components				
313 COMPOI	NENTS	CASRN	PERCENT	REPORTING LIMIT
The product contains no i	regulated			
components				
CERCLA/SARA COI	MPONENTS	CASRN	PERCENT	REPORTING LIMIT
The product contains no i	regulated			
components				
	ACUTE	Yes		
	CHRONIC	No		

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

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>†</sup>	LIST DATA
COMPONENT MAINE	CASINI	CONCLINITIATION	בוטו טבוב

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.

SDS GENERATED BY PSIMCOX

**SDS VERSION DATE** 11/3/2021 8:56:22 AM

Patrick B. Simcox

SDS APPROVED BY Manager – Health, Safety, & Environmental

e-mail: Patrick.Simcox@kao.com

MANUFACTURER(S) PILIPINAS KAO, INC.

Jasaan Misamis Oriental Ecozone

9003 Jasaan, Mis. Or.

P.O. Box 15

Cagayan de Oro City PHILIPPINES Telephone: 63-88-890-5020

# **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	D

# **END OF DOCUMENT**