

**Product name:**  
 FARMIN DM2098

# SAFETY DATA SHEET

## 1. Identification of the substance or mixture and of the supplier

**Product name:**

FARMIN DM2098

**Product No.:** B0002114

### Recommended use of the chemical and restrictions on use

**Recommended use:** Not known.

**Restrictions on use:** Not known.

### Manufacturer/Importer/Supplier/Distributor Information

#### Manufacturer

Company Name: Pilipinas Kao Inc.  
 Address: JASAAN MISAMIS ORIENTAL ECOZONE, 9003 Jasaan, Misamis Oriental, Philippines  
 Telephone: +63-88-890-5020  
 Fax: +63-88-890-5020 local 199  
 Contact division: -  
 E-mail: -

**Emergency telephone number:** 63-88-890-5020

## 2. Hazard(s) identification

### GHS classification

#### Physical Hazards

Corrosive to metal	Category 1
--------------------	------------

#### Health Hazards

Acute toxicity (Oral)	Category 4
Skin Corrosion/Irritation	Category 1B
Serious Eye Damage/Eye Irritation	Category 1

#### Unknown toxicity - Health

Acute toxicity, dermal	100 %
Acute toxicity, inhalation, dust or mist	100 %

#### Environmental Hazards

Acute hazards to the aquatic environment	Category 1
Chronic hazards to the aquatic environment	Category 1

#### Unknown toxicity - Environment

Acute hazards to the aquatic environment	0 %
Chronic hazards to the aquatic environment	0 %

### Label Elements

Product name:  
FARMIN DM2098

## Pictograms:



Signal Word: Danger

Hazard Statement: May be corrosive to metals.  
Harmful if swallowed.  
Causes severe skin burns and eye damage.  
Very toxic to aquatic life with long lasting effects.

## Precautionary Statements

Prevention: Keep only in original packaging. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. This product may form partially precipitate according to the storage condition. In that case, please warm-up for melting, then use as homogeneous liquid.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/ physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Immediately wash material off the skin thoroughly with 2% acetic acid and plenty of water until slimy feeling disappears. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Collect spillage.

Storage: Store in corrosive resistant container with a resistant inner liner. Store locked up.

Disposal: Passed to a licensed waste contractor.

Other hazards which do not result in GHS classification: None.

## 3. Composition/information on ingredients

### Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)
十二烷基二甲基叔胺 Lauryldimethylamine	-	112-18-5	100%

## 4. First-aid measures

**Product name:**  
 FARMIN DM2098

#### Description of necessary first-aid measures

<b>Inhalation:</b>	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
<b>Skin Contact:</b>	Call a POISON CENTER/doctor if you feel unwell. Remove/take off immediately all contaminated clothing. Immediately wash material off the skin thoroughly with 2% acetic acid and plenty of water until slimy feeling disappears. Wash contaminated clothing before reuse. Call a POISON CENTER/doctor if you feel unwell. Remove/take off immediately all contaminated clothing. Immediately wash material off the skin thoroughly with 2% acetic acid and plenty of water until slimy feeling disappears. Wash contaminated clothing before reuse.
<b>Eye contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
<b>Ingestion:</b>	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
<b>Personal Protection for First-aid Responders:</b>	No data available.
<b>Most important symptoms and effects, both acute and delayed Symptoms:</b>	No data available.
<b>Hazards:</b>	No data available.

#### Indication of immediate medical attention and special treatment needed

<b>Treatment:</b>	Get medical attention if symptoms occur.
-------------------	--

### 5. Fire-fighting measures

#### Suitable (and unsuitable) extinguishing media

<b>Suitable extinguishing media:</b>	Powder, alcohol-resistant foam, carbon dioxide, sand
<b>Unsuitable extinguishing media:</b>	No data available.
<b>Special hazards arising from the substance or mixture:</b>	Produce irritating or toxic gases in a fire.

#### Special protective equipment and precautions for firefighters

<b>Special fire fighting procedures:</b>	Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible. Do not flow the materials causing adverse effects into the environment with effluent fire extinguishing agents.
<b>Special protective equipment for fire-fighters:</b>	Use goggles in combination with dust mask, and other protections as appropriate to situation. Risk of producing harmful gases such as carbon monoxide and nitrogen oxides. Avoid inhalation of smoke or gases.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	Use goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation.
<b>Accidental release measures:</b>	Keep away from sources of ignition and prepare extinguishing media.
<b>Methods and material for containment and cleaning up:</b>	Small spills: Absorb spills with sand, inert absorbent, waste cloth or sawdust. Then wipe up remainder in waste cloth. Large spills: Dike spills and dispose of in safe area.
<b>Environmental Precautions:</b>	Avoid release to the environment.

## 7. Handling and storage

### Handling

<b>Technical measures (e.g. Local and general ventilation):</b>	Iron is apt to rust. Plant equipment should be treated with rust-resist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use an adequate ventilation.
<b>Safe handling advice:</b>	Keep away from source of ignition. Avoid contact with skin and eyes. This product may form partially precipitate according to the storage condition. In that case, please warm-up for melting, then use as homogeneous liquid. Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using the product. Avoid contact with acids.
<b>Contact avoidance measures:</b>	No data available.

### Storage

<b>Safe storage conditions:</b>	Store locked up. Keep away from source of ignition. Store in corrosive resistant container with a resistant inner liner. Keep under nitrogen. Do not store with acids.
<b>Safe packaging materials:</b>	No data available.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

None of the components have assigned exposure limits.

<b>Engineering measures:</b>	Iron is apt to rust. Plant equipment should be treated with rust-resist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use an adequate ventilation.
------------------------------	--

### Individual protection measures, such as personal protective equipment

<b>Eye/face protection:</b>	Safety goggles or Face shield
-----------------------------	-------------------------------

**Product name:**  
 FARMIN DM2098

<b>Hand Protection:</b>	Material: Gloves (alkali-resistant)
<b>Skin and Body Protection:</b>	Alkali-resistant protective clothing
<b>Respiratory Protection:</b>	Use chemical cartridge respirator for alkalines, as appropriate to situation.
<b>Hygiene measures:</b>	No data available.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

<b>Physical state:</b>	Liquid
<b>Form:</b>	Liquid
<b>Color:</b>	Colorless clear
<b>Odor:</b>	Amine-like odor
<b>Odor Threshold:</b>	No data available.
<b>Freezing point:</b>	-11 °F/-24 °C
<b>Boiling Point:</b>	522 °F/272 °C
<b>Flammability:</b>	No data available.

#### Upper/lower limit on flammability or explosive limits

<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Flash Point:</b>	266 °F/130 °C (Cleveland open cup)
<b>Self Ignition Temperature:</b>	> 212 °F/100 °C
<b>Decomposition Temperature:</b>	No data available.
<b>pH:</b>	No data available.

#### Viscosity

<b>Dynamic viscosity:</b>	4 mPa.s (68 °F/20 °C) 3.2 mPa.s (86 °F/30 °C) 2 mPa.s (104 °F/40 °C)
<b>Kinematic viscosity:</b>	No data available.
<b>Flow Time:</b>	No data available.

#### Solubility(ies)

<b>Solubility in Water:</b>	Insoluble in water
<b>Solubility (other):</b>	Soluble in various organic solvents
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Vapor pressure:</b>	300 Pa (219 °F/104 °C)
<b>Relative density:</b>	No data available.
<b>Density:</b>	0.793 g/ml (50 °F/10 °C) 0.787 g/ml (68 °F/20 °C)
<b>Relative vapor density:</b>	No data available.

#### Particle characteristics

<b>Particle Size:</b>	No data available.
<b>Particle Size Distribution:</b>	No data available.

Product name:  
FARMIN DM2098

## 10. Stability and reactivity

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	No data available.
<b>Possibility of hazardous reactions:</b>	Has no self-reactivity. Reacts with acids.
<b>Conditions to avoid:</b>	No data available.
<b>Incompatible Materials:</b>	No data available.
<b>Hazardous Decomposition Products:</b>	No data available.

## 11. Toxicological information

### Acute toxicity (list all possible routes of exposure)

<b>Oral Product:</b>	ATEmix: 1,200 mg/kg
<b>Dermal Product:</b>	Classification not possible due to insufficient data.
<b>Inhalation Product:</b>	Dusts, mists and fumes: Classification not possible due to insufficient data. Vapour: No data available. Not classified based on available data of component(s).

### Skin Corrosion/Irritation

<b>Product:</b>	No data available.
-----------------	--------------------

#### Components:

十二烷基二甲基叔胺 Lauryldimethylamine	Category 1B (88)
----------------------------------	------------------

### Serious Eye Damage/Eye Irritation

<b>Product:</b>	No data available.
-----------------	--------------------

#### Components:

十二烷基二甲基叔胺 Lauryldimethylamine	Category 1 (42)
----------------------------------	-----------------

### Respiratory or Skin Sensitization

<b>Product:</b>	Skin: Classification not possible due to insufficient data. Respiratory: Classification not possible due to insufficient data.
-----------------	---

### Carcinogenicity

<b>Product:</b>	Classification not possible due to insufficient data.
-----------------	---

Product name:  
FARMIN DM2098

## Germ Cell Mutagenicity

### In vitro

**Product:** Ames test (TA98, TA100): Negative (Data on equivalent product)  
Classification not possible due to insufficient data.

### In vivo

**Product:** Classification not possible due to insufficient data.

## Reproductive toxicity

**Product:** No data available.  
Not classified based on available data of component(s).

## Specific Target Organ Toxicity - Single Exposure

**Product:** Classification not possible due to insufficient data.

## Specific Target Organ Toxicity - Repeated Exposure

**Product:** Classification not possible due to insufficient data.

## Aspiration Hazard

**Product:** Classification not possible due to insufficient data.

**Other effects:** No data available.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** LC 50 (Rainbow Trout, 96 h): 0.57 mg/l (Data on equivalent product)

##### Aquatic Invertebrates

**Product:** No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

##### Components:

十二烷基二甲基叔胺  
Lauryldimethylamine  
Category 1: (8)

#### Chronic hazards to the aquatic environment

##### Fish

**Product:** No data available.

##### Aquatic Invertebrates

**Product:** No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

##### Components:

十二烷基二甲基叔胺  
Lauryldimethylamine  
Category 1: (8)

**Product name:**  
 FARMIN DM2098

## Persistence and Degradability

### Biodegradation

**Product:** 72 % (28 d, OECD TG301B) (Data on equivalent product)

### BOD/COD Ratio

**Product:** No data available.

## Bioaccumulative potential

### Bioconcentration Factor (BCF)

**Product:** No data available.

### Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

**Mobility in soil:** No data available.

**Other adverse effects:** No data available.

## 13. Disposal considerations

**Disposal methods:** Review "HANDLING AND STORAGE (Section 7)". Passed to a licensed waste contractor. Incinerate with little portions. Risk of producing harmful gases such as carbon monoxide and nitrogen oxides.

**Contaminated Packaging:** No data available.

## 14. Transport information

### IATA

UN Number:	UN 2735
UN Proper Shipping Name:	Amines, liquid, corrosive, n.o.s.(Alkyl(C12-C14) Dimethylamine)
Transport Hazard Class(es)	
Class:	8
Label(s):	8
Packing Group:	II
Passenger and cargo aircraft :	851
Limited quantity	None.
Excepted quantity	E2
Environmental Hazards	
Environmentally Hazardous:	Yes
Marine Pollutant:	No
Special precautions for user:	None.
Passenger and cargo aircraft:	Allowed. 851
Cargo aircraft only :	Allowed. 855

### IMDG

UN Number:	UN 2735
UN Proper Shipping Name:	AMINES, LIQUID, CORROSIVE, N.O.S.(Alkyl(C12-C14) Dimethylamine)



**Product name:**  
 FARMIN DM2098

Transport Hazard Class(es)	
Class:	8
Label(s):	8
EmS No.:	F-A, S-B
Packing Group:	II
Limited quantity	1.00L
Excepted quantity	E2
Environmental Hazards	
Environmentally Hazardous:	Yes
Marine Pollutant:	Yes
Special precautions for user:	None.

## National Regulations

**Domestic Standard:** In compliance with domestic law.

**Emergency Response Guide Number:** 153

## 15. Regulatory information

### National regulatory information:

**Regulations on Occupational Safety and Health Facilities**

**Standards for the Storage, Cleanup, Handling and Disposal of Industrial Waste.**

**Regulations on Labelling and Hazard Communication of Hazardous Chemicals**

**Rules on Road Traffic Safety**

### Inventory Status:

US TSCA Inventory:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
Australia AICS:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	Contact us for information
Japan (ENCS) List:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
REACH (EU):	Contact us for information
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory

## 16. Other Information

**Issue Date:** 2022.02.21

**Version #:** 1.0

### Organization that prepared the SDS and SDS Author:

**SDS Author:** Kao (Taiwan) Corporation  
 10 F., No. 207, Sec 3, Pei-Hsin Rd., Hsin-Tien District, New Taipei City  
 23143, Taiwan R.O.C.  
 Chin chang, Wen (Director) TEL: 886-2-8665-1930

**Product name:**  
 FARMIN DM2098

**Further Information:** No data available.

**References:** No data available.

**Revision Information** Not relevant.

**Disclaimer:** 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. In the case of the product for fragrance, it's in accordance with the latest standard of IFRA within ordinary use. Contact with the supplier for detail information.

**Reference:**

- (8): OECD SIDS
- (42): Classification and Labelling of Surfactants (CESIO)
- (88): ECHA-REACH Registered Substances Database