

SAFETY DATA SHEET

1. Product and company identification

Name of chemical (Product name): FARMIN 08D

Product No.: B0002099

Manufacturer/Importer/Distributor Information

Information on domestic manufacturer

Company Name:	Kao Corporation
Address:	1-3,Bunka 2-chome,Sumida-ku,Tokyo 131-8501 Japan
Telephone:	+81-3-5630-7700
Fax:	+81-3-5630-7889
Contact division:	Chemical Business
E-mail:	chemical@kao.co.jp

Intended Use: Intermediates, Lubricant oil additives

Restrictions on use: Please refer to Sec.2, 4, 7, 8, 10 and 13.

Emergency telephone number: 81-3-5630-7700

2. Hazard(s) identification

GHS classification

Physical Hazards

Flammable liquids	Category 3
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Health Hazards

Acute toxicity (Oral)	Category 3
Acute toxicity (Dermal)	Category 3
Acute toxicity (Inhalation - dust and mist)	Category 4
Skin Corrosion/Irritation	Category 1A
Serious Eye Damage/Eye Irritation	Category 1
Specific Target Organ Toxicity - Single Exposure	Category 3 (Respiratory tract irritation.)

Unknown toxicity - Health

Acute toxicity, inhalation, vapor	100 %
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Environmental Hazards

Acute hazards to the aquatic environment	Category 1
Chronic hazards to the aquatic environment	Category 2

Unknown toxicity - Environment

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

Label Elements

Pictograms:



Signal Word: Danger

Hazard Statement: Flammable liquid and vapor.
 Toxic if swallowed or in contact with skin
 Harmful if inhaled.
 Causes severe skin burns and eye damage.
 May cause respiratory irritation.
 Very toxic to aquatic life.
 Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. This product may be solidified totally or partially according to the storage condition. In that case, please warm-up for melting, then use at homogeneous liquid.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/ physician. In case of fire : Keep away from sources of ignition and use appropriate extinguishing media. Collect spillage.

Storage:

Store in a well-ventilated place. Keep container tightly closed. 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 name or generic name	CAS number	ISHL	ENCS	Content in percent (%)
Octylamine	111-86-4	Yes	Yes	

4. First-aid measures

Description of first aid measures

Inhalation: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

Skin Contact: 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.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

Personal Protection for First-aid Responders: No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Powder, alcohol-resistant foam, carbon dioxide, sand

Unsuitable extinguishing media: No data available.

Special hazards arising from the substance or mixture:

Produce irritating or toxic gases in a fire.

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures:

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.

Special protective equipment for fire-fighters:

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

Personal precautions, protective equipment and emergency procedures:

Use goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation.

Methods and material for containment and cleaning up:

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.

Environmental Precautions:

Avoid release to the environment.

Prevention of secondary hazards:

Keep away from sources of ignition and prepare extinguishing media.

7. Handling and storage

Handling

Technical measures:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Local/Total ventilation:

Use an adequate ventilation.

Safe handling advice:

Keep away from source of ignition. Avoid contact with skin and eyes. 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. This product may be solidified totally or partially according to the storage condition. In that case, please warm-up for melting, then use at homogeneous liquid.

Contact avoidance measures:

No data available.

Storage

Safe storage conditions:

Keep container tightly closed. Store in a well-ventilated place. Store locked up. Keep away from source of ignition.

Keep under nitrogen. Do not store with acids.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Product: None known.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety goggles or Face shield

Hand Protection: Material: Gloves (alkali-resistant)

Skin and Body Protection: Alkali-resistant protective clothing

Respiratory Protection: Use chemical cartridge respirator for alkalines, as appropriate to situation.

Hygiene measures: No data available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Form: Liquid

Color: Colorless clear

Odor: Amine-like odor

Odor Threshold: No data available.

Freezing point: -3 - 1 °C/27 - 34 °F

Boiling Point: > 40 °C/104 °F

Flammability: No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: No data available.

Explosive limit - lower: No data available.

Flash Point: 58 °C/136 °F (Tag closed cup)

Auto-ignition temperature: > 100 °C/212 °F

Decomposition Temperature: No data available.

pH: No data available.

Viscosity

Dynamic viscosity: No data available.
Kinematic viscosity: No data available.
Flow Time: No data available.

Solubility(ies)

Solubility in Water: Insoluble in water
Solubility (other): Soluble in various organic solvents

Partition coefficient (n-octanol/water): No data available.

Vapor pressure: No data available.

Relative density: No data available.

Density: 0.796 g/ml at 10 °C/50 °F
 0.788 g/ml at 20 °C/68 °F
 0.78 g/ml at 30 °C/86 °F

Relative vapor density: No data available.

Particle characteristics

Particle Size: No data available.
Particle Size Distribution: No data available.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: No data available.

Possibility of hazardous reactions: Reacts with acids.

Conditions to avoid: No data available.

Incompatible Materials: No data available.

Hazardous Decomposition Products: No data available.

11. Toxicological information

Acute toxicity (list all possible routes of exposure)

Oral Product: ATEmix: 100 mg/kg

Dermal Product: ATEmix 300 mg/kg

Inhalation Product: Dust and mist: ATEmix1.6 mg/l
 Vapour: Classification not possible due to insufficient data.

Skin Corrosion/Irritation

Product: No data available.

Components:

Octylamine Category 1A: (88)

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Octylamine Category 1: (88)

Respiratory or Skin Sensitization

Product: Skin: No data available.
 Not classified based on available data of component(s).
 Respiratory: Classification not possible due to insufficient data.

Carcinogenicity

Product: Classification not possible due to insufficient data.

IARC:

No carcinogenic components identified

ACGIH:

No carcinogens present or none present in regulated quantities

NTP:

No carcinogenic components identified

JSOH:

No carcinogenic components identified

EU

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: Ames test (TA98, TA100): Negative
 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: No data available.

Components:

Octylamine Category 3: respiratory tract irritant: (88)

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: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Octylamine Category 1: (88)

Chronic hazards to the aquatic environment

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Octylamine Category 2: (88)

Persistence and Degradability

Biodegradation

Product: No data available.

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.

Hazardous to the ozone layer: Not Regulated

Further Information: No data available.

13. Disposal considerations

Disposal methods:	Review "HANDLING AND STORAGE (Section 7)". Passed to a licensed waste contractor. This material is containing flammable materials. Be careful in case of incineration. Remove the contents completely in case of disposal of the container. Incinerate with little portions. Risk of producing harmful gases such as carbon monoxide and nitrogen oxides.
Contaminated Packaging:	No data available.

14. Transport information

International regulations

IMDG

UN Number:	UN 2734
UN Proper Shipping Name:	AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (Octyl amine)
Transport Hazard Class(es)	
Class:	8
Label(s):	8, 3
EmS No.:	F-E, S-C
Packing Group:	I
Excepted quantity	E0
Environmentally Hazardous:	Yes
Marine Pollutant:	Yes
Special precautions for user:	Not Regulated.

IATA

UN Number:	UN 2734
UN Proper Shipping Name:	Amines, liquid, corrosive, flammable, n.o.s. (Octyl amine)
Transport Hazard Class(es):	
Class:	8
Label(s):	8, 3
Packing Group:	I
Excepted quantity	E0
Environmentally Hazardous:	Yes
Marine Pollutant:	No
Special precautions for user:	Not Regulated.
Other information	
Passenger and cargo aircraft:	Allowed. 850
Cargo aircraft only:	Allowed. 854

UN Proper Shipping Name (JP): アミン類(液体)(腐食性かつ引火性のもの)(他に品名が明示されているものを除く。)(Octyl amine)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

Domestic Standard: In compliance with domestic law.

Emergency Response Guide Number: 132

15. Regulatory information

Industrial Safety and Health Law

Specified Substances Regulation

Class 1 designated chemical substances:

Not Regulated

Class 2 designated chemical substances:

Not Regulated

Class 3 designated chemical substances:

Not Regulated

Ordinance on Prevention of Lead Poisoning:

Not Regulated

Ordinance on Prevention of Tetraalkyl Lead Poisoning:

Not Regulated

Notifiable substances (wt% is sometimes described by range because it's CBI.):

octylamine (alias: monoethylamine)(From April 1st, 2024) 100%

Labeling substances:

octylamine (alias: monoethylamine)(From April 1st, 2024)

Confirmed mutagens among the notified chemical substances:

Not Regulated

Confirmed mutagens among the existing chemical substances:

Not Regulated

Confirmed carcinogenic chemical substances:

Not Regulated

Industrial Safety and Health Ordinance, Art. 326, Corrosive Liquid:

Regulated

Poisonous and Deleterious Substances Control Act

Not Regulated

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Class I specified chemical substances:

Not Regulated

Class II specified chemical substances:

Not Regulated

Monitoring chemical substances:

Not Regulated

Priority Assessment Chemical Substances (PACs):

Alkan-1-amine(C=8,10,12,14,16,18, normal chain), (Z)-Octadec-9-en-1-amine or (9Z,12Z)-Octadeca-9,12-dien-1-amine

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Class 1 Substance(s):

Alkan-1-amine (limited to C=8,10,12,14,16,18, normal chain), (Z)-Octadec-9-en-1-amine or (9Z,12Z)-Octadeca-9,12-dien-1-amine and mix 100%

Fire Service Act:

Group 4: Flammable liquids, Type 2 petroleum, Water insoluble liquid, Designated Quantity (1000 litre)
 Hazardous rank III

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule:

Corrosive substances

Air Law, Enforcement Rule:

Corrosive substances

Explosives Control Act:

Not Regulated

High Pressure Gas Safety Act:

Not Regulated

Act on Prevention of Marine Pollution and Maritime Disaster:

Pack transport, Marine pollutant

Export Trade Control Order

Not Regulated

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):	Registered
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory

16. Other Information

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.

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Reference:

- Hazard communication of chemicals based on GHS -- Labelling and Safety Data Sheet (SDS) (JIS Z 7253 : 2019)
- International Chemical Safety Cards (ICSC) (Compiler's Guide) (1994)
- GHS guideline -- Labelling and Safety Data Sheet (2019) Japan Chemical Industry Association (88): ECHA-REACH Registered Substances Database