

SAFETY DATA SHEET

1. Product and company identification

Name of chemical (Product name): FARMIN 20D

Product No.: B0002101

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
Division:	Chemical Business
E-mail:	chemical@kao.co.jp

Emergency telephone number: 81-3-5630-7700

2. Hazard(s) identification

GHS classification:

Physical Hazards

Corrosive to metal	Category 1
Health Hazards	
Acute toxicity (Oral)	Category 4
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Environmental Hazards	
Acute hazards to the aquatic environment	Category 1
Chronic hazards to the aquatic environment	Category 2

GHS label elements

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. Toxic to aquatic life with long lasting effects.	
Prevention:	Keep only in original packaging. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. 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. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. 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. Immediately call a POISON CENTER or doctor/ physician. 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.	
Unknown toxicity - Health		
Acute toxicity, dermal	100 %	
Acute toxicity, inhalation, or mist	lust 100 %	
Unknown toxicity - Environm	nt	
Acute hazards to the aque environment	tic 0 %	
Chronic hazards to the a environment	uatic 0 %	

3. Composition/information on ingredients

Substances

Chemical name or generic name	CAS number	ISHL	ENCS	Content in percent (%)
Lauryl amine	124-22-1	(2)-133	(2)-133	



4. First-aid measures

Description of necessary first-aid measures		
Inhalation:	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.	
Skin Contact:	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.	
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.	

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.	
Specific hazards arising from the chemical:	Produce irritating or toxic gases in a fire.	
Special protective equipment and precautions for firefighters		
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:	Cool down to solid in case of melt(be careful of heat),and then sweep or vacuum spilled materials to drums or containers.	
SDS JP-B0002101-A	3/11	



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 (e.g. Local and general ventilation):	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use an adequate ventilation. Iron is apt to rust. Plant equipment should be treated with rust-resist.
Safe handling advice:	Keep away from source of ignition. Avoid contact with skin and eyes. 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. 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.
Contact avoidance measures:	No data available.
Hygiene measures:	No data available.
Storage	
Safe storage conditions:	Keep container tightly closed. Store in a well-ventilated place. Store in corrosive resistant container with a resistant inner liner. Store locked up. Keep away from source of ignition. Keep under nitrogen. Do not store with acids.
Safe packaging materials:	No data available.
Storage Temperature:	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.



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Hygiene measures:

No data available.

9. Physical and chemical properties

Information on basic physical a Appearance	and chemical properties
Physical state:	solid
Form:	Solid(liquid in summer(over 20C))
Color:	White
Odor:	Amine-like odor
Odor Threshold:	No data available.
Melting Point:	73 - 81 °F/23 - 27 °C
Boiling Point:	498 °F/259 °C
Flammability: Upper/lower limit on flamma	No data available. bility or explosive limits
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	253 °F/123 °C (Cleveland open cup)
Self Ignition Temperature:	No data available.
Decomposition	No data available.
Temperature: pH: Viscosity	No data available.
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:	700 Pa (234 °F/112 °C)
Relative density:	No data available.
Density:	0.795 g/ml (86 °F/30 °C) 0.779 g/ml (104 °F/40 °C) 0.772 g/ml (122 °F/50 °C)
Relative vapor density:	No data available.
Particle characteristics Particle Size:	No data available.
Particle Size Distribution:	No data available.
Particle Size Distribution:	
Heat of combustion	>= 34 kJ/g

10. Stability and reactivity

Reactivity:

No data available.



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Chemical Stability:	No data available.
Possibility of hazardous reactions:	Reacts with acids. Has no self-reactivity.
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: 1,020 mg/kg
Dermal Product:	Classification not possible due to insufficient data.
Inhalation Product:	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 Product:	No data available.
Components: Lauryl amine	Category 1: (88)
Serious Eye Damage/Eye Irritatio Product:	on No data available.
Components: Lauryl amine	Category 1: (21)
Respiratory or Skin Sensitization Product:	n Skin: Classification not possible due to insufficient data. Respiratory: Classification not possible due to insufficient data.
Carcinogenicity Product:	Classification not possible due to insufficient data.
IARC: No carcinogenic components identified	

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:	Classification not possible due to insufficient data.	
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:	No data available.	
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: Lauryl amine	Category 1: (88)	
Chronic hazards to the aquatic environment		
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	



Label(s):

EmS No.: Packing Group:

Excepted quantity Environmentally Hazardous:

Limited quantity

Marine Pollutant:

SDS JP-B0002101-A

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Toxicity to Aquatic Plants Product:	No data available.
Components: Lauryl amine	Category 2: (88)
Persistence and Degradability	
Biodegradation Product:	No data available.
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (BC Product:	CF) No data available.
Partition Coefficient n-octan Product:	ol / water (log Kow) No data available.
Mobility in soil:	No data available.
Hazardous to the ozone layer:	No data available.
Further Information:	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	
International regulations	
IMDG UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class:	UN 3259 AMINES, SOLID, CORROSIVE, N.O.S. (1-Dodecylamine) 8

8 F-A, S-B

Ш

E2 Yes

Yes

1.00KG



Special precautions for user:	Not regulated.
ΙΑΤΑ	
UN Number:	UN 3259
UN Proper Shipping Name:	Amines, solid, corrosive, n.o.s. (1-Dodecylamine)
Transport Hazard Class(es):	
Class:	8
Label(s):	8
Packing Group:	II
Excepted quantity	E2
Environmentally Hazardous:	Yes
Marine Pollutant:	No
Special precautions for user:	Not regulated.
Other information	
Passenger and cargo aircraft:	Allowed. 859
Cargo aircraft only:	Allowed. 863
UN Proper Shipping Name (JP):	アミン類(固体)(腐食性のもの)(他に品名が明示されているものを 除く。)(1-Dodecylamine)

National Regulations

Domestic Standard: In compliance with domestic law.

Emergency Response Guide Number153

15. Regulatory information

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

Until March 31st, 2023 Not Regulated

From April 1st, 2023

Class 1 Substance(s):

Alkan-1-amine (limited to those the alkane is linear chain and C=8,10,12,14,16 or 100% 18 and the mixture thereof), (Z)-octadec-9-en-1-amine, (9Z,12Z)-octadeca-9,12-dien-1-amine and the mixture thereof

Industrial Safety and Health Law

Not Regulated

Poisonous and Deleterious Substances Control Act

Not Regulated

Explosives Control Act:

Not Regulated

High Pressure Gas Safety Act:

Not Regulated

Fire Service Act:

Designated combustible materials: Combustible solids (3,000 kg)



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

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

Air Law. Enforcement Rule:

Corrosive substances

Act on Prevention of Marine Pollution and Maritime Disaster : Pack transport, Marine pollutant

Export Trade Control Order

Not Regulated

Inventory Status:

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

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 guidline -- Labelling and Safety Data Sheet (2019) Japan Chemical Industry Association (21): Estimation



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(88): ECHA-REACH Registered Substances Database