# Set Up Date

January 16, 1996

# SAFETY DATA SHEET

## [1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : FARMIN 20D **SUPPLIER** : Kao Corporation

**ADDRESS** : 1-3,Bunka 2-chome,Sumida-ku,Tokyo 131-8501 Japan

DIVISION : Global Chemical Business

TELEPHONE NUMBER : 81-3-5630-7700 **FAX NUMBER** : 81-3-5630-7889 E-MAIL ADDRESS : chemical@kao.co.jp : 81-3-5630-7700 **EMERGENCY TELEPHONE NUMBER** 

RECOMMENDED USE

AND RESTRICTIONS ON USE

# [2.HAZARDS IDENTIFICATION]

**GHS CLASSIFICATION** 

PHYSICAL AND CHEMICAL HAZARDS

**CORROSIVE TO METALS** : Category 1

**HEALTH HAZARDS** 

**ACUTE TOXICITY (Oral)** : Category 4

**ACUTE TOXICITY (Dermal)** : Classification not possible ACUTE TOXICITY (Inhalation) : Not applicable(Vapours)

SKIN CORROSION / IRRITATION : Category 1 SERIOUS EYE DAMAGE / EYE : Category 1

**IRRITATION** 

RESPIRATORY SENSITIZATION : Classification not possible SKIN SENSITIZATION : Classification not possible

**GERM CELL MUTAGENICITY** : Not classified

CARCINOGENICITY : Classification not possible

REPRODUCTIVE TOXICITY : Not classified

SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE : Classification not possible - REPEATED EXPOSURE : Classification not possible ASPIRATION HAZARD : Classification not possible

**ENVIRONMENTAL HAZARDS** 

HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD : Category 1 - LONG-TERM HAZARD : Category 1

- HAZARDOUS TO THE OZONE : Classification not possible

**LAYER** 

**GHS LABEL ELEMENTS** 

PICTOGRAMS OR SYMBOLS



SIGNAL WORD Danger

HAZARD STATEMENTS 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 container.

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

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. 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.

SAFE HANDLING ADVICE : Refer to SDS.

> 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

[3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE : Substance INGREDIENTS AND CONCENTRATION: Lauryl amine

**RANGE** 

CAS RN : 124-22-1

[4.FIRST-AID MEASURES]

IN CASE OF INHALATION : Remove to fresh air and keep at rest in a position comfortable for

breathing. Immediately call a POISON CENTER or doctor.

IN CASE OF 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.

Immediately call a POISON CENTER or doctor.

IN CASE OF 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 or doctor.

IN CASE OF INGESTION : Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

Do NOT induce vomiting.

[5.FIRE-FIGHTING MEASURES]

SPECIFIC HAZARDS

**EXTINGUISHING MEDIA** : Powder, alcohol-resistant foam, carbon dioxide, sand

NOT SUITABLE EXTINGUISHING

**MEDIA** 

: Produce irritating or toxic gases in a fire.

SPECIFIC METHODS Keep away from sources of ignition and use appropriate extinguishing

: No information available

media. Fight fire from upwind position if possible.

Do not flow the materials causing adverse effects into the environment

with effluent fire extinguishing agents.

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PROTECTION OF 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 PROCEDURE

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

Ensure adequate ventilation.

**ENVIRONMENTAL PRECAUTIONS** 

: Avoid release to the environment.

METHODS FOR 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.

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.

**PRECAUTIONS** : Keep away from source of ignition.

Avoid contact with eyes and skin.

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.

SAFE HANDLING ADVICE : Use an adequate ventilation.

Wash thoroughly after handling.

Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product.

Avoid contact with acids.

**STORAGE** 

SUITABLE STORAGE CONDITIONS Store container tightly closed in well-ventilated place.

Store in corrosive resistant/container with a resistant inliner.

Store locked up.

Keep away from source of ignition.

Keep under nitrogen. Do not store with acids.

SAFE PACKAGING MATERIALS : No information available

[8.EXPOSURE CONTROLS / PERSONAL PROTECTION]

**ENGINEERING MEASURES** : 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.

LIMIT VALUES

ACGIH (TLV) : Not established OSHA (PEL) : Not established

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION : Use chemical cartridge respirator for alkalines, as appropriate to

situation.

HAND PROTECTION : Gloves (alkali-resistant) **EYE PROTECTION** : Safety goggles or Face shield

SKIN AND BODY PROTECTION : Alkali-resistant protective clothing

HYGIENE MEASURES : No information available KCDS-No 000054-18 **FARMIN 20D** 4 / 6 June 12, 2014

**Kao Corporation** Revised Date

[9.PHYSICAL AND CHEMICAL PROPERTIES]

**APPEARANCE** 

PHYSICAL STATE : Solid(liquid in summer(over 20C))

COLOUR : White

**ODOUR** Amine-like odour pН : No data available SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

٥C **BOILING POINT** 259 498.2 °F)

**MELTING POINT** 27 °C ( 73.4 -80.6 °F) : 23

253.4 °F) **FLASH POINT** 123 ٥С (CLEVELAND open cup method)

FLAMMABILITY OR EXPLOSIVE PROPERTIES

FLAMMABILITY OR EXPLOSIVE : UPPER LIMIT : No information available LOWER LIMIT : No information

LIMITS available

VAPOUR PRESSURE 700 Pa 112 °C) ( 233.6 °F)

VAPOUR DENSITY : No information available

86 °F) DENSITY (SPECIFIC GRAVITY) 30 °C) ( 0.795 g/mL (

> 0.779 g/mL 40 °C) ( 104 °F) 0.772 g/mL 50 °C) ( 122 °F)

**SOLUBILITY** 

WATER SOLUBILITY : Insoluble

SOLVENT SOLUBILITY : Soluble in various organic solvents.

: No information available PARTITION COEFFICIENT: n-

OCTANOL / WATER (log Pow)

**AUTO-IGNITION TEMPERATURE** : No information available **DECOMPOSITION TEMPERATURE** : No information available **ODOUR THRESHOLD** : No information available **EVAPORATION RATE** : No information available FLAMMABILITY (SOLID, GAS) : No information available VISCOSITY : No information available OTHER DATA No information available

[10.STABILITY AND REACTIVITY]

CHEMICAL STABILITY : No information available

POSSIBILITY OF HAZARDOUS : Reacts with acids.

REACTIONS

No self-reactivity.

CONDITIONS TO AVOID : No information available **INCOMPATIBLE MATERIALS** : No information available HAZARDOUS DECOMPOSITION : No information available

**PRODUCTS** 

**OTHERS** : No information available

[11.TOXICOLOGICAL INFORMATION]

**ACUTE TOXICITY** 

Oral

INFORMATION ON PRODUCT : Rat, LD50 : 1020 mg/kg (Data on laurylamine) (2)

Mouse, LD50: 1160 mg/kg (Data on laurylamine) (2)

Dermal

INFORMATION ON PRODUCT : No information available

Inhalation

INFORMATION ON PRODUCT : No information available

SKIN CORROSION / IRRITATION

INFORMATION ON PRODUCT : Rabbit, 750 ug/24h : Severe (Data on laurylamine) (2)

SERIOUS EYE DAMAGE / IRRITATION

INFORMATION ON PRODUCT : Rabbit, 50ug/24h : Severe (Data on laurylamine) (2)

RESPIRATORY OR SKIN SENSITIZATION

RESPIRATORY

INFORMATION ON PRODUCT : No information available

**SKIN** 

INFORMATION ON PRODUCT : No information available

MUTAGENICITY (GERM CELL MUTAGENICITY)

INFORMATION ON PRODUCT : No information available

CARCINOGENICITY

INFORMATION ON PRODUCT : No information available

IARC : Not listed
NTP : Not listed
EU : Not listed
OSHA : Not listed

REPRODUCTIVE TOXICITY

INFORMATION ON PRODUCT : No information available

SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE

INFORMATION ON PRODUCT : No information available

- REPEATED EXPOSURE

INFORMATION ON PRODUCT : No information available

ASPIRATION HAZARD

INFORMATION ON PRODUCT : No information available OTHER INFORMATION : No information available

[12.ECOLOGICAL INFORMATION]

ECOTOXICITY : No information available
PERSISTENCE / DEGRADABILITY : No information available
MOBILITY IN SOIL : No information available
BIOACCUMULATIVE POTENTIAL : No information available
OTHER ADVERSE EFFECTS : No information available

[13.DISPOSAL CONSIDERATIONS]

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.

Dispose of waste in accordance with local, state and federal regulations.

[14.TRANSPORT INFORMATION]

Follow all regulations in your country or region

INTERNATIONAL REGULATIONS

UN CLASS / UN NUMBER : Class 8 / UN3259

IATA : UN Number UN3259

ao Corporation Revised Da

Proper Shipping Name Amines, Solid, Corrosive, n.o.s. (containing

1-Dodecylamine)

Class 8
Packing Group II

IMDG : UN Number UN3259

Proper Shipping Name Amines, Solid, Corrosive, n.o.s. (containing

1-Dodecylamine)

Class 8
Packing Group II

Additional Information Marine pollutant

SPECIAL PRECAUTIONS FOR USER : Review "ACCIDENTAL RELEASE MEASURES (Section 6)".

Review "HANDLING AND STORAGE (Section 7)". Ensure containers without breakage or leakage.

Ensure containers tightly fixed.

Follow all regulations in your country or region.

Keep away from source of ignition.

Emergency Response Guide(ERG) Numbers: 153

#### [15.REGULATORY INFORMATION]

Follow all regulations in your country or region.

INVENTORIES : ENCS(Japan) 2-133

TSCA(USA) Yes EINECS(EU) 204-690-6

AICS(Australia) Yes
DSL(Canada) Yes
ECL(Korea) KE-12825

PICCS(Philippines) No

IECSC(China) Yes

KAO Corporation is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

### [16.OTHER INFORMATION]

REFERENCE : -Safety data sheet for chemical products - Part 1: Content and order of

sections(ISO 11014-1)

-International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994)

(2) Registry of Toxic Effects of Chemical Substances

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