

## SAFETY DATA SHEET

## [1.PRODUCT AND COMPANY IDENTIFICATION]

**PRODUCT NAME** : FARMIN 80  
**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  
**EMERGENCY TELEPHONE NUMBER** : 81-3-5630-7700  
**RECOMMENDED USE AND RESTRICTIONS ON USE** :

## [2.HAZARDS IDENTIFICATION]

## GHS CLASSIFICATION

**PHYSICAL AND CHEMICAL HAZARDS** : Not classified

## HEALTH HAZARDS

**ACUTE TOXICITY (Oral)** : Not classified  
**ACUTE TOXICITY (Dermal)** : Not classified  
**ACUTE TOXICITY (Inhalation)** : Not applicable(Vapours)  
**SKIN CORROSION / IRRITATION** : Category 2  
**SERIOUS EYE DAMAGE / EYE IRRITATION** : Category 1  
**RESPIRATORY SENSITIZATION** : Classification not possible  
**SKIN SENSITIZATION** : Not classified  
**GERM CELL MUTAGENICITY** : Not classified  
**CARCINOGENICITY** : Classification not possible  
**REPRODUCTIVE TOXICITY** : Not classified  
**SPECIFIC TARGET ORGAN TOXICITY**  
 - SINGLE EXPOSURE : Classification not possible  
 - REPEATED EXPOSURE : Category 2(gastro-intestinal tract, liver, immune system-Oral)  
**ASPIRATION HAZARD** : Category 1

## ENVIRONMENTAL HAZARDS

## HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE HAZARD : Category 1  
 - LONG-TERM HAZARD : Category 1  
 - HAZARDOUS TO THE OZONE LAYER : Classification not possible

## GHS LABEL ELEMENTS

## PICTOGRAMS OR SYMBOLS :



**SIGNAL WORD** : Danger

**HAZARD STATEMENTS** : Causes skin irritation  
 Causes serious eye damage  
 May cause damage to organs through prolonged or repeated exposure (gastro-intestinal tract, liver, immune system)  
 May be fatal if swallowed and enters airways  
 Very toxic to aquatic life with long lasting effects

## PRECAUTIONARY STATEMENTS

**PREVENTION** : Do not breathe dust/fume/gas/mist/vapours/spray.

|                      |   |
|----------------------|---|
|                      | Avoid release to the environment.   |
|                      | Wash thoroughly after handling.   |
|                      | Wear protective gloves/eye protection/face protection.  |
| RESPONSE             | : IF SWALLOWED: Immediately call a POISON CENTER or doctor. 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. Immediately call a POISON CENTER or doctor.                                      |
|                      | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash material off the skin thoroughly with 2% acetic acid and plenty of water until slimy feeling disappears. |
|                      | Collect spillage.   |
| STORAGE              | : Store locked up.  |
| DISPOSAL             | : Passed to a licensed waste contractor.  |
| SAFE HANDLING ADVICE | : Refer to SDS.   |

## [3.COMPOSITION / INFORMATION ON INGREDIENTS]

|                                     |                 |
|-------------------------------------|-----------------|
| SUBSTANCE OR MIXTURE                | : Substance     |
| INGREDIENTS AND CONCENTRATION RANGE | : Stearyl amine |
| CAS RN                              | : 124-30-1      |

## [4.FIRST-AID MEASURES]

|                         |   |
|-------------------------|---|
| IN CASE OF INHALATION   | : Remove person to fresh air and keep comfortable for breathing.<br>Get medical advice/attention if you feel unwell.  |
| IN CASE OF SKIN CONTACT | : Get medical advice/attention if you feel unwell.<br>Wash material off the skin thoroughly with 2% acetic acid and plenty of water until slimy feeling disappears. |
| 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    | : Get medical advice/attention if you feel unwell.<br>Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.   |

## [5.FIRE-FIGHTING MEASURES]

|                                  |  |
|----------------------------------|--|
| EXTINGUISHING MEDIA              | : Powder, alcohol-resistant foam, carbon dioxide, sand   |
| NOT SUITABLE EXTINGUISHING MEDIA | : No information available   |
| SPECIFIC HAZARDS                 | : Produce irritating or toxic gases in a fire.   |
| SPECIFIC METHODS                 | : Keep away from sources of ignition and use appropriate extinguishing media.Fight fire from upwind position if possible.<br>Do not flow the materials causing adverse effects into the environment with effluent fire extinguishing agents. |
| PROTECTION OF FIRE FIGHTERS      | : Use goggles in combination with dust mask, and other protections as appropriate to situation.<br>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.<br>Large spills : Remove person to safety.<br>Ensure adequate ventilation. |
| ENVIRONMENTAL PRECAUTIONS  | : Avoid release to the environment.   |
| METHODS FOR CLEANING UP  | : Sweep or vacuum spills 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.

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.  
Avoid contact with acids.

##### STORAGE

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

##### LIMIT VALUES

ACGIH (TLV) : Not established

OSHA (PEL) : Not established

##### PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION : Use as appropriate to situation.

HAND PROTECTION : Rubber gloves

EYE PROTECTION : Safety goggles

SKIN AND BODY PROTECTION : Full-body suit

HYGIENE MEASURES : No information available

#### [9.PHYSICAL AND CHEMICAL PROPERTIES]

##### APPEARANCE

PHYSICAL STATE : Solid

COLOUR : White

ODOUR : Amine-like odour

pH : 10.6 (1% suspension(EtOH/Water=1/1))

##### SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT : 349 °C ( 660.2 °F)

MELTING POINT : 49 - 51 °C ( 120.2 - 123.8 °F)

FLASH POINT : 176 °C ( 348.8 °F) (CLEVELAND open cup method)

##### FLAMMABILITY OR EXPLOSIVE PROPERTIES

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

VAPOUR PRESSURE : No information available

VAPOUR DENSITY : No information available

DENSITY (SPECIFIC GRAVITY) : 0.806 g/mL ( 50 °C) ( 122 °F)  
0.788 g/mL ( 70 °C) ( 158 °F)

## SOLUBILITY

WATER SOLUBILITY : Insoluble  
SOLVENT SOLUBILITY : Soluble in various organic solvents.  
PARTITION COEFFICIENT: n-  
OCTANOL / WATER (log Pow) : No information available  
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  
REACTIONS : Reacts with acids.  
  
No self-reactivity.  
CONDITIONS TO AVOID : No information available  
INCOMPATIBLE MATERIALS : No information available  
HAZARDOUS DECOMPOSITION  
PRODUCTS : No information available  
OTHERS : No information available

## [11.TOXICOLOGICAL INFORMATION]

## ACUTE TOXICITY

Oral  
INFORMATION ON PRODUCT : Rat, LD50 : 2395 mg/kg (Data on Stearyl amine) (2)  
Dermal  
INFORMATION ON PRODUCT : No information available  
Inhalation  
INFORMATION ON PRODUCT : No information available  
SKIN CORROSION / IRRITATION  
INFORMATION ON PRODUCT : Rabbit, 20 mg/24h : Moderate (Data on Stearyl amine) (2)  
SERIOUS EYE DAMAGE / IRRITATION  
INFORMATION ON PRODUCT : No information available  
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 : Data on stearylamine(9)  
Brahyanio rerio, 96h LC50 : 1-10 mg/L  
Daphnia magne, 48h EC50 : 0.13 mg/L  
Scenedesmus subspicatus, 72h ErC50 : 0.12 mg/L

PERSISTENCE / DEGRADABILITY : Readily Biodegradable (14 days, BOD/ThOD = 67.4 %)

Modified MITI test (Directive 84/449/ECC, C.7) :  
74% (28 days) (Data on Octadecylamine) (3)

OECD303A : 94 % (21 days) (Data on Octadecylamine) (3)

MOBILITY IN SOIL : No information available

BIOACCUMULATIVE POTENTIAL : No information available

OTHER ADVERSE EFFECTS : COD(Mn) : 480000 mg/kg

## [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 9 / UN3077  |   |
| IATA                         | : | UN Number   | UN3077  |
|                              |   | Proper Shipping Name  | Environmentally Hazardous Substance, Solid, n.o.s.(Stearyl amine) |
|                              |   | Class   | 9   |
|                              |   | Packing Group   | III   |
| IMDG                         | : | UN Number   | UN3077  |
|                              |   | Proper Shipping Name  | Environmentally Hazardous Substance, Solid, n.o.s.(Stearyl amine) |
|                              |   | Class   | 9   |
|                              |   | Packing Group   | III   |
|                              |   | Additional Information  | Marine pollutant  |
| SPECIAL PRECAUTIONS FOR USER | : | Review "ACCIDENTAL RELEASE MEASURES (Section 6)".<br>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 : 171

## [15.REGULATORY INFORMATION]

Follow all regulations in your country or region.

|             |   |                    |           |
|-------------|---|--------------------|-----------|
| INVENTORIES | : | ENCS(Japan)        | 2-133     |
|             |   | TSCA(USA)          | Yes       |
|             |   | EINECS(EU)         | 204-695-3 |
|             |   | AICS(Australia)    | Yes       |
|             |   | DSL(Canada)        | Yes       |
|             |   | ECL(Korea)         | KE-26325  |
|             |   | PICCS(Philippines) | Yes       |
|             |   | 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   |
|           |   | (3)IUCLID   |
|           |   | (9)European Union Risk Assessment Report  |

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