

## SAFETY DATA SHEET

## [1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : FARMIN T  
 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

CORROSIVE TO METALS : Category 1

## HEALTH HAZARDS

ACUTE TOXICITY (Oral) : Category 4

ACUTE TOXICITY (Dermal) : Classification not possible

ACUTE TOXICITY (Inhalation) : Classification not possible(Vapours)

SKIN CORROSION / IRRITATION : Category 1B

SERIOUS EYE DAMAGE / EYE IRRITATION : Category 1

RESPIRATORY SENSITIZATION : Classification not possible

SKIN SENSITIZATION : Classification not possible

GERM CELL MUTAGENICITY : Not classified

CARCINOGENICITY : Classification not possible

REPRODUCTIVE TOXICITY : Classification not possible

## SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE : Classification not possible

- REPEATED EXPOSURE : Category 2(gastrointestinal tract, liver, immune system)

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 LAYER : Classification not possible

## 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

May cause damage to organs through prolonged or repeated exposure (gastrointestinal tract, liver, immune system)

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 liquid.

## [3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE	: Substance
INGREDIENTS AND CONCENTRATION RANGE	: Tallow amines
CAS RN	: 61790-33-8

## [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]

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. 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.  
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

## [9. PHYSICAL AND CHEMICAL PROPERTIES]

## APPEARANCE

PHYSICAL STATE : Solid  
 COLOUR : Pale yellow  
 ODOUR : Amine-like odour  
 pH : No data available

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

BOILING POINT : No information available  
 MELTING POINT : 30 - 38 °C ( 86 - 100.4 °F)  
 FLASH POINT : 165 °C ( 329 °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) : 0.807 g/mL ( 40 °C) ( 104 °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 : No information available  
 Dermal  
 INFORMATION ON PRODUCT : No information available  
 Inhalation  
 INFORMATION ON PRODUCT : No information available  
 SKIN CORROSION / IRRITATION

INFORMATION ON PRODUCT : No information available  
 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 : 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
		Proper Shipping Name	Amines, Solid, Corrosive, n.o.s.(containing Oleylamine)
		Class	8
		Packing Group	II

IMDG : UN Number UN3259  
 Proper Shipping Name Amines, Solid, Corrosive, n.o.s.(containing Oleylamine)  
 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) 8-342  
 TSCA(USA) Yes  
 EINECS(EU) 263-125-1  
 AICS(Australia) Yes  
 DSL(Canada) Yes  
 ECL(Korea) KE-32922  
 PICCS(Philippines) Yes  
 IECSC(China) Yes  
 TCSI(Taiwan) 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)

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