

## SAFETY DATA SHEET

## [1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : FARMIN D86  
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) : Not classified  
ACUTE TOXICITY (Dermal) : Not classified  
ACUTE TOXICITY (Inhalation) : Not applicable(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 : Classification not possible  
CARCINOGENICITY : Classification not possible  
REPRODUCTIVE TOXICITY : Classification not possible  
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 LAYER : Classification not possible

## GHS LABEL ELEMENTS

## PICTOGRAMS OR SYMBOLS :



SIGNAL WORD : Danger  
HAZARD STATEMENTS : May be corrosive to metals  
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.

RESPONSE	: Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. : IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. 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.

## [3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE	: Substance
INGREDIENTS AND CONCENTRATION RANGE	: Dialkyl(C14-18) amines
CAS RN	: 68037-98-9

## [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	: Immediately call a POISON CENTER or doctor. 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.
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	: Water spray, powder
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.
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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 and skin.  
 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 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 : 65 - 70 °C ( 149 - 158 °F)  
 FLASH POINT : 240 °C ( 464 °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)	: 0.7935 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	: 2 mPa.s ( 125 °C) ( 257 °F)
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.(Dialkyl(C14-18) amines)
		Class	8
		Packing Group	II
IMDG	:	UN Number	UN3259
		Proper Shipping Name	Amines, Solid, Corrosive, n.o.s.(Dialkyl(C14-18) amines)
		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)	2-138
		TSCA(USA)	Yes
		EINECS(EU)	268-222-2
		AICS(Australia)	Yes
		DSL(Canada)	Yes
		ECL(Korea)	No
		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)

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.