

SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : AMINON PK-02S
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
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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 : Classification not possible
CARCINOGENICITY : Category 2
REPRODUCTIVE TOXICITY : Not classified
SPECIFIC TARGET ORGAN TOXICITY
- SINGLE EXPOSURE : Category 2(liver)
- REPEATED EXPOSURE : Not classified
ASPIRATION HAZARD : Classification not possible

ENVIRONMENTAL HAZARDS

HAZARDOUS TO THE AQUATIC ENVIRONMENT
- ACUTE HAZARD : Category 2
- LONG-TERM HAZARD : Category 2
- 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
 Suspected of causing cancer
 May causes damage to organs (liver)
 Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS

PREVENTION : Obtain special instructions before use.

	Do not handle until all safety precautions have been read and understood.
	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	<ul style="list-style-type: none"> : 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 contaminated clothing. Gently wash with plenty of water and soap. If skin irritation occurs, seek medical advice/attention. Collect spillage.
STORAGE	: Store locked up.
DISPOSAL	: Passed to a licensed waste contractor.
SAFE HANDLING ADVICE	:

[3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE : Substance

INGREDIENTS AND CONCENTRATION RANGE

Ingredients	Concentration Range(%)	CAS RN
Palm kernel oil diethanolamide	Confidential	73807-15-5
Diethanolamine	Confidential	111-42-2

IMPURITIES CONTRIBUTING TO THE HAZARD : Diethanolamine contains less than 5% as impurities

[4.FIRST-AID MEASURES]

IN CASE OF INHALATION : Remove person to fresh air and keep comfortable for breathing.

IF exposed or concerned: Get medical attention/advice.

IN CASE OF SKIN CONTACT : Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Gently wash with plenty of soap and water. If skin irritation occurs, seek medical advice/attention.

IF exposed or concerned: Get medical attention/advice.

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 : Call a POISON CENTER or doctor if you feel unwell.

IF exposed or concerned: Get medical attention/advice.

[5.FIRE-FIGHTING MEASURES]

EXTINGUISHING MEDIA : Powder, alcohol-resistant foam, water spray, 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.ACIDENTAL 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 : Small spills: Absorb spills with sand, inert absorbent, waste cloth or sawdust. Then wipe up remainder in waste cloth.
Large spills: Dike spills and dispose of in safe area.

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.
Do not eat, drink or smoke when using this product.

STORAGE

SUITABLE STORAGE CONDITIONS : Store container tightly closed in well-ventilated place.
Store locked up.
Keep away from source of ignition.

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) : TWA 1 mg/m³(Inhalable fraction and vapor), STEL - (Skin)
Diethanolamine

OSHA (PEL) : PEL TWA Total dust 15mg/m³, TWA Respirable fraction 5mg/m³, (2012 year edition)
Glycerin (mist)

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 : Liquid

COLOUR : Pale yellow

ODOUR : Slightly characteristic odour

pH : 10 (1% solution(10%EtOH solution))

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

BOILING POINT : 290 °C (554 °F)
 MELTING POINT : -2.5 °C (27.5 °F)
 FLASH POINT : 183 °C (361.4 °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 : 133 Pa (125 °C) (257 °F)
 VAPOUR DENSITY : 3.2
 DENSITY (SPECIFIC GRAVITY) : 0.999 g/mL (20 °C) (68 °F)
 0.986 g/mL (40 °C) (104 °F)
 0.973 g/mL (60 °C) (140 °F)

SOLUBILITY

WATER SOLUBILITY : Emulsifiable
 SOLVENT SOLUBILITY : Soluble in chloroform
 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 : 210 mPa.s (50 °C) (122 °F)
 OTHER DATA : No information available

[10. STABILITY AND REACTIVITY]

CHEMICAL STABILITY : No information available
 POSSIBILITY OF HAZARDOUS REACTIONS : No self-reactivity.
 Reacts with acids.
 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 : > 5 g/kg
 Dermal
 INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : No information available
 Inhalation
 INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : No information available
 SKIN CORROSION / IRRITATION
 INFORMATION ON PRODUCT : Rabbit, undiluted,
 4 hours semi-occluded application test (OECD404) :
 Category 2
 SERIOUS EYE DAMAGE / IRRITATION
 INFORMATION ON PRODUCT : Rabbit, undiluted, OECD405 : Category 1

RESPIRATORY OR SKIN SENSITIZATION

RESPIRATORY

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : No information available

SKIN

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : No information available

MUTAGENICITY (GERM CELL MUTAGENICITY)

INFORMATION ON PRODUCT : Ames test (TA98, TA100) : Negative
 INFORMATION ON INGREDIENTS : No information available

CARCINOGENICITY

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : Diethanolamine: Category 2
 IARC : Group 2B: Possibly carcinogenic to humans.
 Diethanolamine

NTP

: Not listed

EU

: Not listed

OSHA

: Not listed

REPRODUCTIVE TOXICITY

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : No information available

SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : Diethanolamine: Category 1 (liver); Ref.(1)

- REPEATED EXPOSURE

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : Diethanolamine: Category 2 (liver, kidney, blood, central nervous system); Ref.(88): Containing a substance of less than concentration limits triggering classification.

ASPIRATION HAZARD

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

[12. ECOLOGICAL INFORMATION]

ECOTOXICITY : Japanese killifish (acclimated to sea water), 96h, LC50 : 4.6 mg/L

Mysid shrimp, 96h, LC50 : 1.11 mg/L

PERSISTENCE / DEGRADABILITY : Modified MITI test I (OECD 301C) : % degradation by BOD : 68.9 %

MOBILITY IN SOIL : No information available

BIOACCUMULATIVE POTENTIAL : No information available

OTHER ADVERSE EFFECTS : BOD5 : 0.16 g/g
 COD(Cr) : 2.56 g/g

[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 / UN3082	
IATA	: UN Number	UN3082
	Proper Shipping Name	Environmentally Hazardous Substance, Liquid, n.o.s.(Palm kernel oil diethanolamide)
	Class	9
	Packing Group	III
IMDG	: UN Number	UN3082
	Proper Shipping Name	Environmentally Hazardous Substance, Liquid, n.o.s.(Palm kernel oil diethanolamide)
	Class	9
	Packing Group	III
	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 : 171	

[15. REGULATORY INFORMATION]

Follow all regulations in your country or region.

INVENTORIES	: ENCS(Japan)	Yes
	TSCA(USA)	Yes
	EINECS(EU)	Yes
	AICS(Australia)	No
	DSL(Canada)	No(NDSL)
	ECL(Korea)	No
	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) (1)GHS Classification Database, National Institute of Technology and Evaluation (NITE) (88)ECHA-REACH Registered Substances Database
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