

**Product name:**  
 AMINON PK-02S

# SAFETY DATA SHEET

## 1. Identification of the substance or mixture and of the supplier

**Product name:**  
 AMINON PK-02S

**Product No.:** B0004845

**Recommended use of the chemical and restrictions on use**

**Recommended use:** Not known.  
**Restrictions on use:** Not known.

**Manufacturer/Importer/Supplier/Distributor Information**

**Manufacturer**

Company Name:	Kao Corporation
Address:	1-3,Bunka 2-chome,Sumida-ku,Tokyo 131-8501 Japan
Telephone:	+81-3-5630-7700
Fax:	+81-3-5630-7889
Contact division:	Chemical Business
E-mail:	chemical@kao.co.jp

**Emergency telephone number:** 81-3-5630-7700

## 2. Hazard(s) identification

**GHS classification**

**Health Hazards**

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Carcinogenicity	Category 2
Toxic to reproduction	Category 2
Specific Target Organ Toxicity - Single Exposure	Category 2 (Liver)
Specific Target Organ Toxicity - Repeated Exposure	Category 2 (respiratory tract)

**Unknown toxicity - Health**

Acute toxicity, dermal	87.5 %
Acute toxicity, inhalation, dust or mist	91 %

**Environmental Hazards**

Acute hazards to the aquatic environment	Category 2
Chronic hazards to the aquatic environment	Category 2

**Unknown toxicity - Environment**

Acute hazards to the aquatic environment	0 %
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Chronic hazards to the aquatic environment 0 %

**Label Elements**

**Pictograms:**



**Signal Word:** Danger

**Hazard Statement:**  
 Causes skin irritation.  
 Causes serious eye damage.  
 Suspected of causing cancer.  
 Suspected of damaging fertility or the unborn child.  
 May cause damage to organs.  
 May cause damage to organs through prolonged or repeated exposure.  
 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/vapors/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 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/doctor. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Collect spillage.

**Storage:** Store locked up.

**Disposal:** Passed to a licensed waste contractor.

**Other hazards which do not result in GHS classification:** None.

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### 3. Composition/information on ingredients

#### Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)
棕櫚仁油二乙醇酰胺 Palm kernel oil diethanolamide	-	73807-15-5	
二乙醇胺 Diethanolamine	-	111-42-2	

### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation:</b>	Remove person to fresh air and keep comfortable for breathing.
<b>Skin Contact:</b>	Gently wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing.
<b>Eye contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
<b>Ingestion:</b>	Immediately call a POISON CENTER/doctor.
<b>Personal Protection for First-aid Responders:</b>	No data available.

#### Most important symptoms and effects, both acute and delayed

<b>Symptoms:</b>	No data available.
<b>Hazards:</b>	No data available.

#### Indication of immediate medical attention and special treatment needed

<b>Treatment:</b>	Get medical attention if symptoms occur.
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### 5. Fire-fighting measures

#### Suitable (and unsuitable) extinguishing media

<b>Suitable extinguishing media:</b>	Powder, alcohol-resistant foam, water spray, carbon dioxide, sand
<b>Unsuitable extinguishing media:</b>	No data available.
<b>Special hazards arising from the substance or mixture:</b>	Produce irritating or toxic gases in a fire.

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### Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures:	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.
Special protective equipment for 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

<b>Personal precautions, protective equipment and emergency procedures:</b>	Use goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation.
<b>Accidental release measures:</b>	Keep away from sources of ignition and prepare extinguishing media.
<b>Methods and material for containment and cleaning up:</b>	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.
<b>Environmental Precautions:</b>	Avoid release to the environment.

## 7. Handling and storage

### Handling

<b>Technical measures:</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
<b>Local/Total ventilation:</b>	Use an adequate ventilation.
<b>Safe handling advice:</b>	Keep away from source of ignition. Avoid contact with eyes. Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using the product.
<b>Contact avoidance measures:</b>	No data available.

### Storage

<b>Safe storage conditions:</b>	Keep container tightly closed. Store in a well-ventilated place. Store locked up. Keep away from source of ignition.
<b>Safe packaging materials:</b>	No data available.

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## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
甘油 Glycerine	STEL	15 mg/m3	Taiwan. OELs (Standards of Permissible Exposure Limits at Workplace, Notice No. 58463), as amended (03 2018)
	TWA	5 mg/m3	Taiwan. OELs (Standards of Permissible Exposure Limits at Workplace, Notice No. 58463), as amended (03 2018)
	TWA	10 mg/m3	Taiwan. OELs (Standards of Permissible Exposure Limits at Workplace, Notice No. 58463), as amended (03 2018)
	STEL	10 mg/m3	Taiwan. OELs (Standards of Permissible Exposure Limits at Workplace, Notice No. 58463), as amended (03 2018)
二乙醇胺 Diethanolamine	TWA	3 ppm 13 mg/m3	Taiwan. OELs (Standards of Permissible Exposure Limits at Workplace, Notice No. 58463), as amended (12 2003)
	STEL	6 ppm 19.5 mg/m3	Taiwan. OELs (Standards of Permissible Exposure Limits at Workplace, Notice No. 58463), as amended (06 2014)

**Engineering measures:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use an adequate ventilation.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection:** Safety goggles  
**Hand Protection:** Material: Rubber gloves  
**Skin and Body Protection:** Full-body suit  
**Respiratory Protection:** Use as appropriate to situation.  
**Hygiene measures:** No data available.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

**Physical state:** Liquid  
**Form:** Liquid  
**Color:** Pale yellow  
**Odor:** Slight characteristic odor  
**Odor Threshold:** No data available.  
**Freezing point:** 27.5 °F/-2.5 °C  
**Boiling Point:** 554 °F/290 °C  
**Flammability:** No data available.

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**Upper/lower limit on flammability or explosive limits**

**Explosive limit - upper:** No data available.  
**Explosive limit - lower:** No data available.  
**Flash Point:** 361 °F/183 °C (Cleveland open cup)  
**Self Ignition Temperature:** No data available.  
**Decomposition Temperature:** No data available.  
**pH:** 10 (1% solution(10%EtOH solution))

**Viscosity**

**Dynamic viscosity:** 210 mPa.s (122 °F/50 °C)  
**Kinematic viscosity:** No data available.  
**Flow Time:** No data available.

**Solubility(ies)**

**Solubility in Water:** Emulsifiable in water.  
**Solubility (other):** Soluble in chloroform

**Partition coefficient (n-octanol/water):** No data available.  
**Vapor pressure:** 133 Pa (257 °F/125 °C)  
**Relative density:** No data available.  
**Density:** 0.999 g/ml (68 °F/20 °C)  
 0.986 g/ml (104 °F/40 °C)  
 0.973 g/ml (140 °F/60 °C)

**Relative vapor density:** 3.2

**Particle characteristics**

**Particle Size:** No data available.  
**Particle Size Distribution:** No data available.

**10. Stability and reactivity**

**Reactivity:** No data available.  
**Chemical Stability:** No data available.  
**Possibility of hazardous reactions:** Has no self-reactivity. Reacts with acids.  
**Conditions to avoid:** No data available.  
**Incompatible Materials:** No data available.  
**Hazardous Decomposition Products:** No data available.

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## 11. Toxicological information

### Acute toxicity (list all possible routes of exposure)

#### Oral

**Product:** LD 50 (Rat): > 5 g/kg  
 Not classified based on available data.

#### Dermal

**Product:** Classification not possible due to insufficient data.

#### Inhalation

**Product:** Dusts, mists and fumes: Classification not possible due to insufficient data.  
 Vapour: No data available.  
 Not classified based on available data of component(s).

### Skin Corrosion/Irritation

**Product:** OECD TG404 Rabbit, 4 h: Moderate undiluted

### Serious Eye Damage/Eye Irritation

**Product:** OECD TG405, Rabbit, Severe, undiluted

### Respiratory or Skin Sensitization

**Product:** Skin: No data available.  
 Not classified based on available data of component(s).  
 Respiratory: Classification not possible due to insufficient data.

### Carcinogenicity

**Product:** No data available.

#### Components:

二乙醇胺  
 Diethanolamine  
 Category 2: (52)

### Germ Cell Mutagenicity

#### In vitro

**Product:** Ames test (TA98, TA100): Negative  
 Classification not possible due to insufficient data.

#### In vivo

**Product:** Classification not possible due to insufficient data.

### Reproductive toxicity

**Product:** No data available.

#### Components:

二乙醇胺  
 Diethanolamine  
 Category 2: (1)

### Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.

#### Components:

二乙醇胺  
 Diethanolamine  
 Category 1: Liver: (1)  
 Category 2: Kidney, Respiratory system: (1)

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### Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

#### Components:

二乙醇胺  
Diethanolamine  
Category 1: respiratory tract: (1)  
Category 2: Blood, Kidney, Liver: (1)

### Aspiration Hazard

**Product:** Classification not possible due to insufficient data.

**Other effects:** No data available.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** LC 50 (Red Killifish, 96 h): 4.6 mg/l

##### Aquatic Invertebrates

**Product:** LC 50 (Mysid shrimp, 96 h): 1.1mg/l

##### Toxicity to Aquatic Plants

**Product:** No data available.

#### Components:

棕櫚仁油二乙醇酰胺  
Palm kernel oil  
diethanolamide  
Category 2: (21)  
二乙醇胺  
Diethanolamine  
Category 2: (88)

#### Chronic hazards to the aquatic environment

##### Fish

**Product:** No data available.

##### Aquatic Invertebrates

**Product:** No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

#### Components:

棕櫚仁油二乙醇酰胺  
Palm kernel oil  
diethanolamide  
Category 2: (21)  
二乙醇胺  
Diethanolamine  
Category 3: (88)

#### Persistence and Degradability

##### Biodegradation

**Product:** 68.9 % (28 d, OECD TG301C) Readily biodegradable



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**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Mobility in soil:** No data available.

**Other adverse effects:** No data available.

**13. Disposal considerations**

**Disposal methods:** 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.

**Contaminated Packaging:** No data available.

**14. Transport information**

**IATA**

UN Number:	UN 3082
UN Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s.(Palm kernel oil diethanolamide)
Transport Hazard Class(es)	
Class:	9
Label(s):	9MI (Miscellaneous)
Packing Group:	III
Passenger and cargo aircraft :	964
Limited quantity	None.
Excepted quantity	E1
Environmental Hazards	
Environmentally Hazardous:	Yes
Marine Pollutant:	No
Special precautions for user:	None.
Passenger and cargo aircraft:	Allowed. 964
Cargo aircraft only :	Allowed. 964

**IMDG**

UN Number:	UN 3082
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Palm kernel oil diethanolamide)
Transport Hazard Class(es)	
Class:	9
Label(s):	9
EmS No.:	F-A, S-F
Packing Group:	III
Limited quantity	5.00L
Excepted quantity	E1

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**Environmental Hazards**  
 Environmentally Hazardous: Yes  
 Marine Pollutant: Yes  
 Special precautions for user: None.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
 Not applicable for product as supplied.

**National Regulations**

**Domestic Standard:** In compliance with domestic law.  
**Emergency Response Guide Number:** 171

**15. Regulatory information**

**National regulatory information:**

- Regulations on Occupational Safety and Health Facilities**
- Standards for the Storage, Cleanup, Handling and Disposal of Industrial Waste.**
- Regulations on Labelling and Hazard Communication of Hazardous Chemicals**
- Rules on Road Traffic Safety**
- Standards of Permissible Exposure Limits in Workplace**

**Inventory Status:**

<b>US TSCA Inventory:</b>	On or in compliance with the inventory
<b>Canada DSL Inventory List:</b>	On or in compliance with the inventory
<b>Australia AICS:</b>	Not in compliance with the inventory
<b>Korea Existing Chemicals Inv. (KECI):</b>	Not in compliance with the inventory
<b>Japan (ENCS) List:</b>	On or in compliance with the inventory
<b>Japan ISHL Listing:</b>	On or in compliance with the inventory
<b>Philippines PICCS:</b>	On or in compliance with the inventory
<b>China Inv. Existing Chemical Substances:</b>	On or in compliance with the inventory
<b>REACH (EU):</b>	Contact us for information
<b>Taiwan Chemical Substance Inventory:</b>	On or in compliance with the inventory

**16. Other Information**

**Issue Date:** 2022.08.22

**Version #:** 1.0

**Organization that prepared the SDS and SDS Author:**

**SDS Author:** Kao (Taiwan) Corporation  
 10 F., No. 207, Sec 3, Pei-Hsin Rd., Hsin-Tien District, New Taipei City  
 23143, Taiwan R.O.C.  
 Chin chang, Wen (Director) TEL: 886-2-8665-1930

**Further Information:** No data available.

**References:** No data available.

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**Revision Information**

Not relevant.

**Disclaimer:**

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. In the case of the product for fragrance, it's in accordance with the latest standard of IFRA within ordinary use. Contact with the supplier for detail information.

**Reference:**

- (1): GHS Classification Database, National Institute of Technology and Evaluation (NITE)
- (21): Estimation
- (52): IARC Monographs
- (88): ECHA-REACH Registered Substances Database