

Revision Date: 2023.10.11 Issue Date: 2021.06.28

SAFETY DATA SHEET

1. Product and company identification

Name of chemical (Product name): AMINON PK-02S

Product No.: B0004845

Manufacturer/Importer/Distributor Information

Information on domestic 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

Intended Use: Quasi-drug use and cosmetic use

Restrictions on use: Please refer to Sec.2, 4, 7, 8, 10 and 13.

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 -

Category 2 (respiratory tract)

Repeated Exposure

Unknown toxicity - Health

Acute toxicity, dermal 87.5 % 100 % Acute toxicity, inhalation, dust or mist

Environmental Hazards

Acute hazards to the aquatic Category 2

environment

Chronic hazards to the aquatic Category 2

environment

Unknown toxicity - Environment

0 % Acute hazards to the aquatic

environment

SDS JP-B0004845-B 1/12



Revision Date: 2023.10.11 Issue Date: 2021.06.28

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 or doctor/physician. IF ON SKIN (or hair): Take off contaminated clothing. Gently wash with plenty of soap and water. If skin irritation occurs: 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.

3. Composition/information on ingredients

Substances

SDS JP-B0004845-B 2/12



Revision Date: 2023.10.11 Issue Date: 2021.06.28

Chemical name or generic name	CAS number	ISHL	ENCS	Content in percent (%)
Palm kernel oil diethanolamide	73807-15-5	YES	YES	
Diethanolamine	111-42-2	YES	YES	

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

4. First-aid measures

Description of first aid measures

Inhalation: Remove person to fresh air and keep comfortable for breathing.

Skin Contact: Gently wash with plenty of soap and water. If skin irritation

occurs, get medical advice/attention. Take off contaminated

clothing.

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/doctor.

Ingestion: Immediately call a POISON CENTER/doctor.

Personal Protection for First-aid

Responders:

No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Powder, alcohol-resistant foam, water spray, carbon

dioxide,sand

Unsuitable extinguishing media: No data available.

Special hazards arising from the

substance or mixture:

Produce irritating or toxic gases in a fire.

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.

SDS JP-B0004845-B 3/12



Revision Date: 2023.10.11 Issue Date: 2021.06.28

Special protective equipment for firefighters:

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

Use goggles and protective gloves, Large spills: Remove equipment and emergency procedures:

person to safety. Ensure adequate ventilation.

Methods and material for containment

and 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.

Environmental Precautions: Avoid release to the environment.

Keep away from sources of ignition and prepare Prevention of secondary hazards:

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.

Local/Total ventilation: Use an adequate ventilation.

Safe handling advice: 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.

Contact avoidance measures: No data available.

Storage

Keep container tightly closed. Store in a well-ventilated Safe storage conditions:

place. Store locked up. Keep away from source of ignition.

No data available. Safe packaging materials:

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

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Components	Туре	Exposure Limit Values	Source		

SDS JP-B0004845-B 4/12



Revision Date: 2023.10.11 Issue Date: 2021.06.28

Diethanolamine	TWA	1 mg/m3	JPISHL OEL (04 2023)
Diethanolamine - Inhalable	TWA	1 mg/m3	ACGIH (2009)
fraction and vapor.			

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:LiquidForm:Liquid

Color: Pale yellow

Odor: Slight characteristic odor

Odor Threshold:No data available.Freezing point:-2.5 °C/27.5 °FBoiling Point:290 °C/554 °F

Flammability: No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: No data available.

Explosive limit - lower: No data available.

Flash Point: 183 °C/361 °F (Cleveland open cup)

Auto-ignition temperature: No data available.

Decomposition Temperature: No data available.

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

Viscosity

Dynamic viscosity: 210 mPa.s at 50 °C/122 °F

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.

SDS JP-B0004845-B 5/12



Revision Date: 2023.10.11 Issue Date: 2021.06.28

Vapor pressure: 133 Pa at 125 °C/257 °F

Relative density: No data available.

Density: 0.999 g/ml at 20 °C/68 °F

0.986 g/ml at 40 °C/104 °F 0.973 g/ml at 60 °C/140 °F

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.

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: Dust and mist: 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

SDS JP-B0004845-B 6/12



Revision Date: 2023.10.11 Issue Date: 2021.06.28

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:

Diethanolamine Category 2: (52)

IARC:

Diethanolamine Group 2B. Possibly carcinogenic to humans.

ACGIH:

No carcinogens present or none present in regulated quantities

NTP:

No carcinogenic components identified

JSOH:

Diethanolamine Hazard Designation: 2B. Possibly carcinogenic to humans.

ΕU

No carcinogenic components identified

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:

Diethanolamine Category 2: (88)

Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure Product: No data available.

Components:

Diethanolamine Category 2: Liver, Blood, Kidney, Nervous system: (88): Contains

substance(s) below threshold for classification.

Aspiration Hazard

Product: Classification not possible due to insufficient data.

Other effects: No data available.

SDS JP-B0004845-B 7/12



Revision Date: 2023.10.11 Issue Date: 2021.06.28

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): 1.11 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Components:

Palm kernel oil diethanolamide Category 2: (21) Diethanolamine Category 2: (88)

Chronic hazards to the aquatic environment

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Palm kernel oil diethanolamide Category 2: (21) Diethanolamine Category 3: (88)

Persistence and Degradability

Biodegradation

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

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.

Hazardous to the ozone layer: Not Regulated

Further Information: No data available.

SDS JP-B0004845-B 8/12



Revision Date: 2023.10.11 Issue Date: 2021.06.28

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

International regulations

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:

Limited quantity

Excepted quantity

Environmentally Hazardous:

Marine Pollutant:

III

5.00L

Excepted quantity

E1

Yes

Special precautions for user: Not Regulated.

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:

Excepted quantity

Environmentally Hazardous:

Marine Pollutant:

No

Special precautions for user: Not Regulated.

Other information

Passenger and cargo aircraft: Allowed. 964
Cargo aircraft only: Allowed. 964

UN Proper Shipping Name (JP): 環境有害物質(液体)(Palm kernel oil diethanolamide)

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.

SDS JP-B0004845-B 9/12



Revision Date: 2023.10.11 Issue Date: 2021.06.28

Emergency Response Guide Number: 171

15. Regulatory information

Industrial Safety and Health Law

Specified Substances Regulation

Class 1 designated chemical substances:

Not Regulated

Class 2 designated chemical substances:

Not Regulated

Class 3 designated chemical substances:

Not Regulated

Ordinance on Prevention of Lead Poisoning:

Not Regulated

Ordinance on Prevention of Tetraalkyl Lead Poisoning:

Not Regulated

Notifiable substances (wt% is sometimes described by range because it's CBI.):

Diethanolamine 1 - 5%

Labeling substances:

Diethanolamine

Confirmed mutagens among the notified chemical substances:

Not Regulated

Confirmed mutagens among the existing chemical substances:

Not Regulated

Confirmed carcinogenic chemical substances:

Not Regulated

Poisonous and Deleterious Substances Control Act

Not Regulated

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Class I specified chemical substances:

Not Regulated

Class II specified chemical substances:

Not Regulated

Monitoring chemical substances:

Not Regulated

Priority Assessment Chemical Substances (PACs):

N,N-Bis(2-hydroxyethyl)alkanamide(C=8,10,12,14,16,18, normal chain), (Z)-N,N-bis(2-hydroxyethyl)octadec-9-enamide or (9Z,12Z)-N,N-bis (2-hydroxyethyl)octadeca-9,12-dienamide Diethanolamine

SDS JP-B0004845-B 10/12



Revision Date: 2023.10.11 Issue Date: 2021.06.28

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Class 1 Substance(s):

N,N-Bis(2-hydroxyethyl)alkanamide(limited to C=8,10,12,14,16,18, normal chain, 88%

mixture), (Z)-N,N-bis(2-hydroxyethyl)octadec-9-enamid and (9Z,12Z)-N,N-bis(2-

hydroxyethyl)octadeca-9,12-dienamide

Diethanolamine 3.5%

Fire Service Act:

Group 4: Flammable liquids, Type 3 petroleums, Water soluble liquid, Designated Quantity (4000 litre) Hazardous rank III

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule:

Miscellaneous dangerous substances and articles

Air Law, Enforcement Rule:

Miscellaneous dangerous substances and articles

Explosives Control Act:

Not Regulated

High Pressure Gas Safety Act:

Not Regulated

Act on Prevention of Marine Pollution and Maritime Disaster:

Pack transport, Marine pollutant

Export Trade Control Order

Not Regulated

Inventory Status:

US TSCA Inventory: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory Not in compliance with the inventory **Australia AICS:** Korea Existing Chemicals Inv. (KECI): Not in compliance with the inventory Japan (ENCS) List: On or in compliance with the inventory Japan ISHL Listing: On or in compliance with the inventory **Philippines PICCS:** On or in compliance with the inventory **China Inv. Existing Chemical Substances:** On or in compliance with the inventory

REACH (EU): Contact us for information

Taiwan Chemical Substance Inventory: On or in compliance with the inventory

SDS JP-B0004845-B 11/12



Revision Date: 2023.10.11 Issue Date: 2021.06.28

16.Other Information

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.

Version #: 3.0

Revision Date: 2023.10.11

Issue Date: 2021.06.28

Reference:

- Hazard communication of chemicals based on GHS -- Labelling and Safety Data Sheet (SDS) (JIS Z 7253 : 2019)
- International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994)
- GHS guidline -- Labelling and Safety Data Sheet (2019) Japan Chemical Industry Association
- (21): Estimation
- (52): IARC Monographs
- (88): ECHA-REACH Registered Substances Database

SDS JP-B0004845-B 12/12