

SDS No.: B0001754 **Revision Date: -Version #:** 1.0 Last revised date: -

Issue Date: 2021.06.30

# **SAFETY DATA SHEET**

# 1. Product and company identification

Name of chemical (Product name): DIAMIN R-86

**Product No.:** B0001754

## 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 +81-3-5630-7889 Fax: 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

## **Environmental Hazards**

Acute hazards to the aquatic Category 1

environment

Chronic hazards to the aquatic Category 1

environment

#### **GHS** label elements

# Pictograms:



**Signal Word:** Danger

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**Hazard Statement:** Causes skin irritation.

Causes serious eye damage.

Very toxic to aquatic life with long lasting effects.

**Prevention:** Avoid release to the environment. Wash thoroughly after handling. Wear

protective gloves/eye protection/face protection. 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.

**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 immediately all contaminated clothing. Immediately wash material off the skin thoroughly with 2% acetic acid and plenty of water until slimy feeling

disappears. Collect spillage.

Storage: -

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

**Unknown toxicity - Health** 

Acute toxicity, dermal 100 % Acute toxicity, inhalation, dust 100 %

or mist

**Unknown toxicity - Environment** 

Acute hazards to the aquatic 0 %

environment

Chronic hazards to the aquatic 0 %

environment

# 3. Composition/information on ingredients

# Substances

Chemical name or generic name	CAS number	ISHL	ENCS	Content in percent (%)
Amines, N-(hydrogenated tallow alkyl)trimetylenediamines	68603-64-5	(7)-5	(7)-5	

## 4. First-aid measures

#### **Description of necessary first-aid measures**

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

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**Skin Contact:** If skin irritation occurs, get medical advice/attention. Take off

contaminated clothing and wash before re-use. 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.

**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.

# 5. Fire-fighting measures

## Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Powder, alcohol-resistant foam, carbon dioxide, sand

Unsuitable extinguishing

media:

No data available.

Specific hazards arising from

the chemical:

Produce irritating or toxic gases in a fire.

#### Special protective equipment and precautions for firefighters

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

Personal precautions,

protective equipment and emergency procedures:

Use goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation.

Methods and material for containment and cleaning

up:

Sweep or vacuum spills to drums or containers.

**Environmental Precautions:** Avoid release to the environment.

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Prevention of secondary

hazards:

**DIAMIN R-86** 

Keep away from sources of ignition and prepare extinguishing media.

# 7. Handling and storage

## Handling

Technical measures (e.g. Local and general ventilation):

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

Safe handling advice:

Keep away from source of ignition. Avoid contact with eyes. 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. Use an adequate ventilation. Wash thoroughly after handling. Use personal

protective equipment as required. Avoid contact with acids.

Contact avoidance measures:

No data available.

Hygiene measures:

No data available.

Storage

Safe storage conditions:

Keep container tightly closed. Store in a well-ventilated place. Keep away from source of ignition. Keep under nitrogen. Do not store with acids.

Safe packaging materials:

No data available.

**Storage Temperature:** 

No data available.

## 8. Exposure controls/personal protection

## **Control Parameters**

**Occupational Exposure Limits** 

**Product:** None known.

# 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.

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**Hygiene measures:** No data available.

# 9. Physical and chemical properties

## Information on basic physical and chemical properties

Appearance

Physical state: Solid

Form: Solid or Flake
Color: Pale yellow
Odor: Amine-like odor
Odor Threshold: No data available.
Melting Point: 118 °F/48 °C
Boiling Point: No data available.
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: 399 °F/204 °C (Cleveland open cup)

**Self Ignition Temperature:** No data available. **Decomposition** No data available.

Temperature:

**pH:** No data available.

Viscosity

Dynamic viscosity:No data available.Kinematic viscosity:No data available.Flow Time:No data available.

Solubility(ies)

Solubility in Water: Insoluble in water

Solubility (other): Soluble in various organic solvents

Partition coefficient (n-

octanol/water):

No data available.

Vapor pressure: No data available. Relative density: No data available.

**Density:** 0.822 g/ml (122 °F/50 °C)

0.816 g/ml (140 °F/60 °C) 0.81 g/ml (158 °F/70 °C)

Relative vapor density: No data available.

**Particle characteristics** 

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

**Heat of combustion** >= 34 kJ/g

## 10. Stability and reactivity

**Reactivity:** No data available.

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Chemical Stability: No data available.

Possibility of hazardous

reactions:

Reacts with acids. Has no self-reactivity.

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:** No data available.

Not classified based on available data of component(s).

**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:** No data available.

Components:

Amines, N-(hydrogenated

Category 2: (42)

tallow

alkyl)trimetylenediamines

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Components:

Amines, N-(hydrogenated

Category 1: (42)

tallow

alkyl)trimetylenediamines

Respiratory or Skin Sensitization

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

Respiratory: Classification not possible due to insufficient data.

Carcinogenicity

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

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IARC:

No carcinogenic components identified

NTP:

No carcinogenic components identified

JSOH:

No carcinogenic components identified

ΕU

No carcinogenic components identified

**Germ Cell Mutagenicity** 

In vitro

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

In vivo

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

Reproductive toxicity

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

**Specific Target Organ Toxicity - Single Exposure** 

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

**Specific Target Organ Toxicity - Repeated Exposure** 

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

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

# 12. Ecological information

# **Ecotoxicity:**

## Acute hazards to the aquatic environment

**Fish** 

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

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Components:

Amines, N-(hydrogenated

Category 1: (88)

tallow

alkyl)trimetylenediamines

Chronic hazards to the aquatic environment

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

No data available. **Product:** 

**Toxicity to Aquatic Plants** 

**Product:** No data available.

**Components:** 

Amines, N-(hydrogenated

alkyl)trimetylenediamines

Category 1: (88)

Persistence and Degradability

Biodegradation

Product: No data available.

**BOD/COD Ratio** 

**Product:** No data available.

Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

Product: No data available.

Partition Coefficient n-octanol / water (log Kow) No data available. **Product:** 

Mobility in soil: No data available.

Hazardous to the ozone layer: No data available.

**Further Information:** 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.

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# 14. Transport information

#### International regulations

**IMDG** 

UN Number: UN 3077

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (Amines, N-(hydrogenated tallow

alkyl)trimethylenediamines)

Transport Hazard Class(es)

Class: 9 Label(s): 9 EmS No.: F-A, S-F Packing Group: Ш Limited quantity 5.00KG **Excepted quantity** E1 Environmentally Hazardous: Yes Marine Pollutant: Yes

Special precautions for user: Not regulated.

IATA

UN Number: UN 3077

UN Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Amines, N-

(hydrogenated tallow alkyl)trimethylenediamines)

Transport Hazard Class(es):

Class:

Label(s): 9MI (Miscellaneous)

Packing Group: III
Excepted quantity E1
Environmentally Hazardous: Yes
Marine Pollutant: No

Special precautions for user: Not regulated.

Other information

Passenger and cargo aircraft: Allowed. 956 Cargo aircraft only: Allowed. 956

UN Proper Shipping Name (JP): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Amines,

N-(hydrogenated tallow alkyl)trimethylenediamines)

**National Regulations** 

Domestic Standard: In compliance with domestic law.

**Emergency Response Guide Number** 171

# 15. Regulatory information

## Law concerning Pollutant Release and Transfer Register

Not Regulated

**Industrial Safety and Health Law** 

Not Regulated

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#### **Poisonous and Deleterious Substances Control Act**

Not Regulated

#### **Explosives Control Act:**

Not Regulated

## **High Pressure Gas Safety Act:**

Not Regulated

## **Fire Service Act:**

Designated combustible materials: Combustible solids (3,000 kg)

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

Not Regulated

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

Miscellaneous dangerous substances and articles

#### Air Law, Enforcement Rule:

Miscellaneous dangerous substances and articles

#### Act on Prevention of Marine Pollution and Maritime Disaster:

Pack transport, Marine pollutant

## **Export Trade Control Order:**

Not Regulated

# **Inventory Status:**

US TSCA Inventory: Canada DSL Inventory List:

Australia AICS:

Korea Existing Chemicals Inv. (KECI):

Japan (ENCS) List: Japan ISHL Listing: Philippines PICCS:

China Inv. Existing Chemical Substances:

REACH (EU):

Taiwan Chemical Substance Inventory:

On or in compliance with the inventory On or in compliance with the inventory On or in compliance with the inventory

Contact us for information

On or in compliance with the inventory On or in compliance with the inventory Not in compliance with the inventory On or in compliance with the inventory

Contact us for information

On or in compliance with the inventory

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# 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.

#### 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

(42): Classification and Labelling of Surfactants (CESIO)

(88): ECHA-REACH Registered Substances Database

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