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# SAFETY DATA SHEET

# 1. Product and company identification

Name of chemical (Product name): DIAMIN RRT

**Product No.:** B0001756

## 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 Division: Chemical Business E-mail: chemical@kao.co.jp

Emergency telephone number: 81-3-5630-7700

# 2. Hazard(s) identification

# **GHS** classification:

## **Physical Hazards**

Corrosive to metal Category 1

#### **Health Hazards**

Acute toxicity (Oral)

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Specific Target Organ Toxicity 
Repeated Exposure

Category 1

Category 1

Category 1

## **Environmental Hazards**

Acute hazards to the aquatic Category 1

environment

Chronic hazards to the aquatic Category 1

environment

## **GHS** label elements

## Pictograms:

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**Signal Word:** Danger

**Hazard Statement:** May be corrosive to metals.

Harmful if swallowed.

Causes severe skin burns and eye damage.

Causes damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.

Prevention: Keep only in original packaging. Do not breathe

dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not

eat, drink or smoke when using this product. Avoid release to the

environment. Wear protective gloves/protective clothing/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.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON Response:

CENTER/doctor if you feel unwell. 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. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell.

Absorb spillage to prevent material damage.

Storage: Store in a corrosion-resistant container with a resistant inner liner. Store

locked up.

Passed to a licensed waste contractor. Disposal:

**Unknown toxicity - Health** 

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

or mist

**Unknown toxicity - Environment** 

Acute hazards to the aquatic 0 %

environment

0 % Chronic hazards to the aquatic

environment

## 3. Composition/information on ingredients

# **Substances**

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Chemical name or generic name	CAS number	ISHL	ENCS	Content in percent (%)*
N-Tallow alkyltrimetylenediamines	61791-55-7	8-344	8-344	

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

#### Description of necessary first-aid measures

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

Immediately call a POISON CENTER/doctor.

Skin Contact: Take off immediately all contaminated clothing. Rinse skin with

water/shower. Call a POISON CENTER/doctor if you feel unwell. 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. Wash contaminated clothing

before reuse.

**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: Rinse mouth. Do NOT induce vomiting. 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.

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## 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:

Cool down to solid in case of melt(be careful of heat), and then sweep or vacuum spilled materials to drums or containers.

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

Prevention of secondary hazards:

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. Iron is apt to rust. Plant equipment should be treated with rust-resist.

Safe handling advice:

Keep away from source of ignition. Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe

dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using the product. 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. 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. Store in a

corrosion-resistant container with a resistant inner liner. Store locked up. 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.

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# 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

None known.

## Individual protection measures, such as personal protective equipment

**Eye/face protection:** Safety goggles or Face shield

Hand Protection: Material: Gloves (alkali-resistant)

Skin and Body Protection: Alkali-resistant protective clothing

**Respiratory Protection:** Use chemical cartridge respirator for alkalines, as appropriate to situation.

## 9. Physical and chemical properties

**Appearance** 

Physical state: solid Form: Solid

Color: Yellow brown
Odor: Amine-like odor
Odor Threshold: No data available.
pH: Not applicable
Melting Point: 95 °F/35 °C
Boiling Point: > 104 °F/40 °C

Flash Point: 415 °F/213 °C (Cleveland open cup)

Evaporation Rate:

Flammability:

No data available.

Vapor pressure:

Vapor density (air=1):

No data available.

No data available.

**Density:** 0.836 g/ml (104 °F/40 °C)

0.83 g/ml (122 °F/50 °C) 0.824 g/ml (140 °F/60 °C)

Relative density: No data available.

Solubility in Water: Insoluble in water

**Solubility (other):** Soluble in various organic solvents

Partition coefficient (n- No data available.

octanol/water):

**Self Ignition Temperature:** > 212 °F/100 °C **Decomposition** No data available.

Temperature:

Kinematic viscosity: No data available.

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**Dynamic viscosity:** No data available.

Particle properties: No data available.

# 10. Stability and reactivity

**Reactivity:** No data available.

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: LD 50 (Mouse, Male): 1,931 mg/kg

**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:

N-Tallow alkyltrimetylenediamines Category 1B: (88)

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Components:

N-Tallow alkyltrimetylenediamines Category 1: (88)

Respiratory or Skin Sensitization

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

Respiratory: Classification not possible due to insufficient data.

Carcinogenicity

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

IARC:

No carcinogenic components identified

ACGIH:

No carcinogenic components identified

NTP:

No carcinogenic components identified

JSOH:

No carcinogenic components identified

EU

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:** 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:** No data available.

Components:

N-Tallow alkyltrimetylenediamines Category 1: (88)

**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.

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**Toxicity to Aquatic Plants** 

**Product:** No data available.

Components:

N-Tallow alkyltrimetylenediamines Category 1: (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:

N-Tallow alkyltrimetylenediamines 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)
Product:
No data available.

Mobility in soil: No data available.

Hazardous to the ozone layer: Not RegulatedNo data available.

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

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 3259

UN Proper Shipping Name: AMINES, SOLID, CORROSIVE, N.O.S. (N-Tallow alkyltrimethylenediamines)

Transport Hazard Class(es)

Class: 8
Label(s): 8

EmS No.: F-A, S-B

Packing Group: II Limited quantity 1.00KG

Excepted quantity E2

Environmentally Hazardous: No Marine Pollutant: Yes

Special precautions for user: Not regulated.

IATA

UN Number: UN 3259

UN Proper Shipping Name: Amines, solid, corrosive, n.o.s. (N-Tallow alkyltrimethylenediamines)

Transport Hazard Class(es):

Class: 8
Label(s): 8
Packing Group: II
Excepted quantity E2

Environmentally Hazardous: Yes Marine Pollutant: No

Special precautions for user: Not regulated.

Other information

Passenger and cargo aircraft: Allowed. 859 Cargo aircraft only: Allowed. 863

UN Proper Shipping Name (JP): AMINES, SOLID, CORROSIVE, N. O. S. (N-Tallow alkyltrimethylenediamines)

## **National Regulations**

Domestic Standard: In compliance with domestic law.

**Emergency Response Guide Number**153

# 15. Regulatory information

#### **Industrial Safety and Health Law**

Not Regulated

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

Not Regulated

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

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Not Regulated

# Law concerning Pollutant Release and Transfer Register

Not Regulated

#### **Fire Service Act:**

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

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

Corrosive substances

#### Air Law, Enforcement Rule:

Corrosive substances

#### **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

Australia AICS: On or in compliance with the inventory

Korea Existing Chemicals Inv. (KECI): Contact us for information

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

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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

(88): ECHA-REACH Registered Substances Database

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