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# SAFETY DATA SHEET

# 1. Product and company identification

Name of chemical (Product name): MANNITOL KAO (JP GRADE)

**Product No.:** B0002490

# 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:

Not classified

**GHS** label elements

Pictograms: No symbol

**Signal Word:** No signal word.

Hazard Statement: Not applicable

**Prevention:** Wash thoroughly after handling. If needed, use personal protective

equipment as required. 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. IF ON SKIN: Gently wash with plenty of water and soap. Call a POISON CENTER or

doctor if you feel unwell.

**Storage:** Store in a well-ventilated place.

Disposal: -

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# 3. Composition/information on ingredients

# **Substances**

**General information:** No hazardous ingredients.

Chemical name or generic name	CAS number	ISHL	ENCS	Content in percent (%)
D-Mannitol	69-65-8	(8)-49	(8)-49	

# 4. First-aid measures

# Description of necessary first-aid measures

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

**Skin Contact:** Gently wash with plenty of soap and water.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

**Ingestion:** Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

# 5. Fire-fighting measures

# Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Water spray, powder

Unsuitable extinguishing

media:

No data available.

Specific hazards arising from

the chemical:

No data available.

# 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.

**Special protective equipment** 

for fire-fighters:

Use goggles in combination with dust mask, and other protections as

appropriate to situation.

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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. Keep upwind.

Methods and material for containment and cleaning up:

Prevent dispersion of dust. Sweep or vacuum by dust-explosion-proof type

cleaner.

**Environmental Precautions:** 

Do not discharge into the drains, surface waters or ground water directly.

Prevention of secondary

hazards:

No data available.

# 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 local exhaust ventilation, in case

of generation of dust.

Safe handling advice: Avoid inhalation of fine dust . 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. If needed, use personal protective equipment as required. Prevent generation of dust. This material may

cause risk of dust explosion.

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.

Safe packaging materials: No data available.

Storage Temperature: No data available.

# 8. Exposure controls/personal protection

# **Control Parameters**

**Occupational Exposure Limits** 

**ACGIH (TLV)** : 10 mg/m3 TWA (inhalable particles, recommended);

3 mg/m3 TWA(respirable particles, recommended)

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(Particulates (insoluble or poorly soluble) not otherwise specified (PNOS))

OSHA (PEL) : 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

(Particulates not otherwise regulated)

# Individual protection measures, such as personal protective equipment

**Eye/face protection:** Safety glasses with side shield(Safety goggles or Face shield)

**Hand Protection:** Material: Rubber gloves

Skin and Body Protection: Full-body suit

**Respiratory Protection:** Use dust mask, as appropriate to situation.

Hygiene measures: No data available.

# 9. Physical and chemical properties

# Information on basic physical and chemical properties

**Appearance** 

Physical state:solidForm:PowderColor:WhiteOdor:Odorless

Odor Threshold:No data available.Melting Point:334 °F/168 °CBoiling Point:> 104 °F/40 °CFlammability:No data available.Upper/lower limit on flammability or explosive limits

Explosive limit - upper:

Explosive limit - lower:

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: Soluble

Solubility (other): Insoluble in alcohols and ether

Partition coefficient (n-

octanol/water):

No data available.

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

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Density: No data available.

Vapor density (air=1): No data available.

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.

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): 17.3 g/kg

LD 50 (Mouse): 22 g/kg

Not classified based on available data.

**Dermal** 

**Product:** No data available.

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

Inhalation

**Product:** Dusts, mists and fumes: Classification not possible due to insufficient data.

Skin Corrosion/Irritation

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

Serious Eye Damage/Eye Irritation

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

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:** No data available.

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

IARC:

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

**Aquatic Invertebrates** 

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

**Toxicity to Aquatic Plants** 

**Product:** No data available.

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# Chronic hazards to the aquatic environment

Fish

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

**Aquatic Invertebrates** 

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

**Toxicity to Aquatic Plants** 

**Product:** No data available.

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: No data available.

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

Further Information: No data available.

# 13. Disposal considerations

**Disposal methods:** Review "HANDLING AND STORAGE (Section 7)". Passed to a licensed

waste contractor. This product may cause risk of dust explosion.

Contaminated Packaging: No data available.

# 14. Transport information

# International regulations

**IMDG** 

Not regulated.

**IATA** 

Not regulated.

# **National Regulations**

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Domestic Standard: In compliance with domestic law.

# 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.

Not Regulated

# Law concerning Pollutant Release and Transfer Register

Not Regulated

#### Fire Service Act:

Not applicable to dangerous materials / designated flammables.

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

Not Regulated

# Air Law, Enforcement Rule:

Not Regulated

# **Explosives Control Act:**

Not Regulated

# **High Pressure Gas Safety Act:**

Not Regulated

# **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

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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

# 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

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