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SAFETY DATA SHEET

1. Identification

Product name High Dia Clean
Manufacturer Penguinwax Co.,Ltd.
Address 3-10-14 Higashinakamoto, Higashinari-ku, Osaka-shi, 537-0021 Japan
Section concerned Research and development department
Phone No. 06-6973-9130
Fax No. 06-6976-1456
Product kind Alkaline detergent for commercial use
Principal use Floor cleaner
Reference No. 23-F-1213-01

2. Hazards identification

GHS classification

Physical Hazards Corrosive to metals classification not possible
 ※ Other physical hazards are not applicable.

Health Hazards Acute toxicity Oral not classified
 Skin corrosion/irritation Category 1
 Serious eye damage/eye irritation Category 1
 Skin sensitization Category 1
 Specific target organ systemic toxicity
 Single exposure Category 2
 (central nervous system)
 ※ Other health hazards and environmental hazards are “classification not possible”.

Label elements

Symbol



Signal word

Danger

Hazard statements

- Causes severe skin burns and eye damage
- May cause an allergic skin reaction
- May causes damage to central nervous system

Precautionary statement

Prevention

- Do not breathe mist, vapor, spray.
- Wash hands thoroughly after handling.
- Wear protective gloves, protective clothing , eye protection and face protection.

- Avoid breathing mist, vapor, spray.
- Contaminated work clothing should not be allowed out of the workplace.
- Do not eat, drink or smoke when using this product.

Response	<ul style="list-style-type: none"> • If swallowed : Rinse mouth. Do not induce vomiting. • If on skin (or hair) : Take off immediately all contaminated clothing. Rinse skin with water { or shower }. • Wash contaminated clothing before reuse. • If inhaled : Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor. • If in eyes : Rinse cautiously with water for several minutes. Remove contact lenses , if present and easy to do . Continue rinsing. Immediately call a doctor. • If on skin : Wash with plenty of water. • If skin irritation or rash occurs : Get medical advice. • If exposed or concerned : Call a doctor.
Storage	<ul style="list-style-type: none"> • Store locked up.
Disposal	<ul style="list-style-type: none"> • Dispose contents and container in accordance with local/regional/national regulation.

3. Composition / Information on Ingredients

Substance or Mixture : Mixture

Ingredients	Weight (%)	Industrial Safety and Health Act (notifiable substances)	PRTR Law	CAS No.
nonionic surfactant	1~5	not applicable	not applicable	—
anionic surfactant	1~5	not applicable	not applicable	—
inorganic builder	1~5	not applicable	not applicable	—
sequester agent	1~5	not applicable	not applicable	—
water - soluble solvent	1~5	not applicable	not applicable	—
2-aminoethanol	<1	○	not applicable	141-43-5
dye	trace	not applicable	not applicable	—
water	balance	not applicable	not applicable	—
total	100			

※ Consideration to “sick-house” and “sick-school”

Ministry of Health, Labor and Welfare designation substances considered as a cause of “sick-house” and “sick-school” are not used.

※ Correspondence of environmental endocrine disrupter

The substances which suspect that Ministry of the Environment provides internal secretion disturbance are not used. (65 substances)

4. First-aid measures

- If inhaled** : Remove the victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- If on skin** : Wash affected areas with water while removing contaminated clothing or shoe. Get medical attention if symptoms occur.
- If in eyes** : Immediately rinse for at least 15 minutes with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
- If swallowed** : Rinse mouth and then drink one or two glasses of water. Do not induce vomiting. Get medical attention immediately.
Never give anything by mouth if the victim is unconscious.
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5. Fire-Fighting Measures

- Suitable extinguishing media** : water , powder , foams , carbon dioxide
- Unsuitable extinguishing media** : no data available
- Specific extinguishing method** : This product is not inflammable but the dry material is inflammable. Do fire-fighting with respiratory-protective-equipment and protective-glove in case of fire.
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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures :

- Keep spectators away. Floor may be slippery, use care to avoid falling.
Wear protective equipments (gloves, protective mask, apron and goggles).

Environmental precautions : Prevent from entering into soil, sewers or watercourse.

Methods and materials for containment and cleaning up :

Small amounts contain with inert material (e.g., sand, earth), collect to the container which can be shut. Large amounts dike and prevent outflow. Collect liquid and diking material to the container which can be shut.

7. Handling and storage

Handling

Technical measure

- Use with well ventilation.
- Avoid contact with skin, eyes and clothing.
- Shut the container after handling.
- Prohibit the entrance except the person concerned in the handling place.
- Don't roughly handle such as turning over container, dropping and adding a shock or dragging it.

Notice

The contact that you should avoid

- no data available
- no data available

Hygiene measure

- Wear protective equipments (gloves, protective mask and glasses).
- The liquid which the container produced does not go back up to an original container once.

Storage

- Safe storage condition** : Avoid direct rays of the sun and keep it in a good cool and dark space of the ventilation and the place that does not freeze up.
- Safe container wrapping** : Use the container which has no damage, no corrosion and no breakage.

8. Exposure controls/personal protection

- Engineering measures** : In the normal ventilation state is available. Set up safe shower, bathroom and face washing near the work area.
- Standard control Concentration** : not established
- Threshold limit value** : 2-aminoethanol TWA 3ppm (7.5mg/m³)
- Individual protection measures**
- Respiratory protection** : Use protection mask when handling at the point sealed up.
- Hand protection** : rubber gloves
- Eye protection** : chemical goggles
- Skin and body protection** : long-sleeved garment and long pants, chemical-protection suit

9. Physical and chemical properties

- Appearance** : green and transparent liquid
- Odor** : surfactant odor
- pH** : 13.4
- Melting point/freezing point** : no data available
- Initial boiling point and boiling range** : 100 °C (water)
- Flash point** : none
- Upper/lower flammability or explosive limits** : no data available
- Vapor pressure** : no data available
- Specific gravity** : 1.04
- Water solubility** : miscible
- Partition coefficient; n-octanol/water** : no data available
- Auto-ignition temperature** : no data available
- Decomposition temperature** : no data available
- Viscosity** : 2.0 mPa·s

10. Stability and reactivity

- Reactivity** : no data available
- Chemical stability** : stable under the normal environment
- Possibility of hazardous reactions** : no data available
- Conditions to avoid** : Avoid direct sunlight, and temperatures of less than 0°C or more than 40°C.
- Incompatible materials** : Avoid contact with aluminum, copper or copper alloy.

Hazardous decomposition products : no data available

1 1. Toxicological information

Acute toxicity (Oral) : not classified LD₅₀(ATE mix) >5000mg/kg
 Acute toxicity (Dermal) : classification not possible
 Acute toxicity (Inhalation) : classification not possible
 Skin corrosion/irritation : This product is classified as Category 1 because the ingredient of pH \geq 11.5 is included more than 1%.
 Serious eye damage/eye irritation : This product is classified as Category 1 because the ingredient of pH \geq 11.5 is included more than 1%.
 Respiratory sensitization : classification not possible
 Skin sensitization : This product is classified as Category 1 because 2-aminoethanol of the Category 1 is included more than 0.1%.
 Germ cell mutagenicity : classification not possible
 Carcinogenicity : classification not possible
 Reproductive toxicity : classification not possible
 Specific target organ toxicity - single exposure : This product is classified as Category 2 because the ingredient of the Category 2 is included more than 1%.
 Specific target organ toxicity - repeated exposure : classification not possible
 Aspiration hazard : classification not possible

1 2. Ecological information

Ecotoxicity
 Hazardous to aquatic environment short-term (Acute) : classification not possible
 Hazardous to aquatic environment long-term (Chronic) : classification not possible
 Persistence and degradability : no data available
 Bioaccumulative potential : no data available
 Mobility in soil : no data available
 Hazardous to the ozone layer : classification not possible
 Other data : BOD 55,000m g/L, COD(Mn) 78,100m g/L

1 3. Disposal considerations

Product • Request disposal to the agency who has waste-treatment license.
 • Avoid the discharge to the public area (river, wetlands, etc.).
Contaminated container or packaging
 • When disposing container, request disposal to the agency who has waste-treatment license after removing a content fully.

1 4. Transport information

Land transport : not applicable to hazardous materials on the Fire Service Act
 Marine transport : Corrosive material on the Ship Safety Act
 Air transport : Corrosive material on the Civil Aeronautics Act
 UN classification : Class 8
 UN No. : 3266

Special precautions for user

In case of transportation, confirm container no leaking, load so that there are not a fall, the fall damage and prevent collapse of cargo surely.

Note instructions in handling and storage (section7).

1 5. Regulatory information

- **Industrial Safety and Health Act**
 - Ordinance on the Prevention of Organic Solvent Poisoning : not applicable
 - Notifiable substances : 2-aminoethanol (No. 21)
 - **Fire Service Act** : not applicable
 - **Poisonous and Deleterious Substances Control Act** : not applicable
 - **Ship Safety Act** : Corrosive material
 - **Civil Aeronautics Act** : Corrosive material
 - **Law concerning Pollutant Release and Transfer Register (PRTR Law)**
 - List of class 1 : not applicable
 - List of class 2 : not applicable
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1 6. Other information

Reference documents

- **Hazard communication of chemicals based on GHS Labelling and Safety Data Sheet (SDS) JIS Z 7253 : 2012**
- **The guide line for GHS** Japan Chemical Industry Association (June, 2012)
- **National Institute of Technology and Evaluation** Opened data

Reference data

Substances considered as a cause of “sick-house” and “sick-school” .

- **Ministry of Health, Labor and Welfare designation substances (13 substances)**
 Formaldehyde, Toluene, Xylene, Paradichlorobenzene, Ethylbenzene, Dibutyl phthalate, Chlorpyrifos, Styrene, Tetradecane, Diazinon, Bis(2-ethylhexyl)phthalate, Acetaldehyde, Fenobucarb
- **School Health and Safety Act : Standard for school environmental sanitation (Formaldehyde and volatile organic compounds)**
 Formaldehyde, Toluene, Xylene, Paradichlorobenzene, Ethylbenzene, Styrene

Notice

The information on this data sheet represents our current data and best opinion as to the proper use in handling of the product under normal foreseeable conditions. Any use of this product which is not in conformance with this data sheet or product label, or which involves using the product in combination with any other product or any other process is the responsibility of the user. Applicable scope of this data sheet is only in Japan.