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SAFETY DATA SHEET

1. Identification

Product name	M-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	Cleaner for floor made of natural stones
Reference No.	23-F-2238-01

2. Hazards identification

GHS classification

Physical Hazards not applicable

Health Hazards	Acute toxicity Oral	not classified
	Skin corrosion/irritation	Category 3
	Serious eye damage/eye irritation	Category 2

※ Other health hazards and environmental hazards are “classification not possible” .

Label elements

Symbol



Signal word

Warning

Hazard statements	<ul style="list-style-type: none"> • Causes mild skin irritation • Causes serious eye irritation
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Precautionary statement

Prevention	<ul style="list-style-type: none"> • Wash hands thoroughly after handling. • Wear protective gloves, protective clothing, eye protection and face protection.
Response	<ul style="list-style-type: none"> • If skin irritation occurs : Get medical advice . • If in eyes : Rinse cautiously with water for several minutes. Remove contact lenses , if present and easy to do . Continue rinsing. • If eye irritation persists : Get medical advice.

Storage	• not applicable
Disposal	• not applicable

3. Composition / Information on Ingredients

Substance or Mixture : Mixture

Ingredients	Weight (%)	Industrial Safety and Health Act (notifiable substances)	PRTR Law	CAS No.
polyoxyethylene alkyl ether (C12-15)	2.0	not applicable	class1(No. 407)	68131-40-8
nonionic surfactant	1~5	not applicable	not applicable	—
anionic surfactant	1~5	not applicable	not applicable	—
Inorganic builder	1~5	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.

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.

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

Hygiene measure

- no data available
- 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 : not established

Individual protection measures

Respiratory protection : not necessary in particular

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	: Colorless semitransparent liquid
Odor	: surfactant odor
pH	: 10.0
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	: 1.01
Water solubility	: miscible
Partition coefficient :	
n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Decomposition temperature	: no data available
Viscosity	: 28 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	: no data available
Hazardous decomposition products	: no data available

11. Toxicological information

Acute toxicity (Oral)	: not classified LD ₅₀ (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 3 because the ingredient of Skin Category 2 is included $\geq 1\%$ but $<10\%$.
Serious eye damage/ eye irritation	: This product is classified as Category 2 because the ingredient of Eye Category 1 is included $\geq 1\%$ but $<3\%$.
Respiratory sensitization	: classification not possible
Skin sensitization	: classification not possible
Germ cell mutagenicity	: classification not possible
Carcinogenicity	: classification not possible
Reproductive toxicity	: classification not possible

Specific target organ toxicity

- single exposure : classification not possible

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 : no data available

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 : not applicable to dangerous goods on the Ship Safety Act

Air transport : not applicable to dangerous goods on the Civil Aeronautics Act

UN classification : not applicable

UN No. : not applicable

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 : not applicable

• Fire Service Act : not applicable

• Poisonous and Deleterious Substances Control Act : not applicable

• Ship Safety Act : not applicable

• Civil Aeronautics Act : not applicable

• Law concerning Pollutant Release and Transfer Register (PRTR Law)

List of class 1 : polyoxyethylene alkyl ether (C12-15) (No. 407)

List of class 2 : not applicable

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.