
Safety data sheet

1. Identification

Product name	General-Purpose Industrial Cleaner
Company name	Miccheal Chemical CO., LTD.
Address	2-14 Ishijima, Koto-ku, Tokyo
Tel	+(81)3-5633-2520
Fax	+(81)3-5653-3575
Department	Reserch and Development
Emergency contact	+(81)72-268-1182
Recommended use	Ceramic floor cleaning
Restrictions on Use	If you are planning to use this product for purposes other than those recommended, please consult with an expert.

2. Hazard identification**GHS classification****Physicochemical hazards**

Corrosive to metal	Not classified
Flammable liquid	Not classified

Health hazards**Acute toxicity**

- oral	Category 4
- dermal	Not classified
- Inhalation, gas	Not classified
- Inhalation, vapor	Not classified
- Inhalation, dust and mist	Not classified

Skin corrosion/ irritation

Category 1

Serious eye damage/eye irritation

Category 1

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	Category 1 (respiratory system)
- repeated exposure	Classification not possible

Aspiration hazard

Classification not possible

Environmental toxicity**Aquatic environmental toxicity**

- acute	Category 3
- chronic	Classification not possible

GHS labelling elements**Symbols/Pictograms****Signal word**

Danger

Hazard information

Harmful if swallowed

Causes severe skin burns and eye damage

Causes damage to organs (respiratory system)

Harmful to aquatic life

Instruction

Prevention:	<p>Do not breathe mist/vapours/spray.</p> <p>Wash hands thoroughly after handling.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Avoid release to the environment.</p> <p>Wear protective gloves/ protective clothes/ protective eyewear/ protective mask.</p>
Response:	<p>IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of water and soap.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.</p> <p>Immediately call a doctor.</p> <p>If exposed or concerned: Immediately call a doctor.</p> <p>Call a doctor if you feel unwell.</p> <p>If skin irritation or a rash occurs: Get medical advice/attention.</p> <p>Wash contaminated clothing before reuse.</p>
Storage:	Store locked up.
Disposal:	Dispose of contents/container in accordance with local/regional/national regulation.

3. Composition/information on ingredients

Single substance or mixtures A mixture

Ingredient

Chemical or common name	Concentration	CAS No.
Potassium hydroxide	1-5%	1310-58-3
Polyoxyethylene alkyl ether	5%	Nondisclosure
Surfactant	Nondisclosure	Nondisclosure
Ethylenediaminetetraacetate	1-5%	Nondisclosure
Coloring	Nondisclosure	Nondisclosure
Water	Balance	7732-18-5

*As the ingredients and content are trade secrets, they will be notified separately after a confidentiality agreement is signed.

4. First-aid measures

If inhaled	<p>Immediately move to a place with fresh air and rest in a posture that is easy to breathe.</p> <p>Call a doctor if you feel unwell.</p>
If on skin	<p>Immediately wash off with a large amount of water.</p> <p>Immediately remove any clothes or shoes that liquid has been spilled on.</p> <p>Get medical advice/attention.</p> <p>Any delay in medical treatment may lead to inflammation.</p> <p>Sufficiently wash any clothes or shoes that liquid has been spilled on before wearing.</p>
If in eyes	<p>Rinse cautiously with water for several minutes.</p> <p>Next, remove contact lenses if present and easy to do. Continue rinsing afterwards.</p> <p>Thereafter, immediately take SDS or this product and see an ophthalmologist.</p>
If swallowed	<p>Immediately wash the person's mouth out with water and ensure they drink a large amount of water.</p> <p>If the person is unconscious, do not put anything in their mouth.</p> <p>Do not induce vomiting and promptly get medical advice/attention.</p> <p>If a large amount of thick liquid is swallowed, delay in receiving treatment can be life-threatening.</p>

5. Fire-fighting measures

Extinguisher	This is a nonflammable solution.
Fire-extinguishing agents that must not be used	None known
Specific fire fighting method	Perform fire-fighting work from a windward direction.

Spray water to surrounding facilities to keep them cool.

When extinguishing a fire, wear appropriate protective equipment such as rubber protective clothing, rubber protective gloves, goggle-type protective glasses, rubber boots, and an air respirator.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Entrance by anyone other than those involved is prohibited. When working, be sure to wear protective equipment (rubber gloves, protective glasses, protective clothing, rubber boots, etc.) to avoid contact with eyes and skin and inhalation of mist. If indoors, ventilate well until work is completed. In case of large amounts, evacuate people safely.
Environmental precautions	Avoid release to the environment. When diluting with a large volume of water, take care so the contaminated waste water should not be discharged into the environment without being processed properly. Do not flush the leakage directly into rivers and sewage.
Methods and materials for containment and cleaning up	In case of a small volume, absorb leakages with adsorbents (sawdust, earth, sand, rags, etc.) and thoroughly wipe the rest with rags or mops. In case of a large volume, prevent the outflow to the surrounding area and appropriately dispose after leading it to a safe place. This is an alkaline product and should be neutralized with acid if necessary.

7. Handling and storage

Handling

Technical measures	Install equipment by the handling place for washing the eyes and body in case of emergency. Take the facility measures described in "8. Exposure controls and personal protective measures" and wear protective equipment. Do not overturn, drop, apply impact, or drag containers.
Local ventilation / Entire ventilation	Use in an area with sufficient ventilation.
Safety precautions of treatment	Do not contact, inhale or swallow. Wash hands, face, etc. thoroughly and gargle after handling.
Contact avoidance	Since it is alkaline, avoid contact with acidic substances.

Storage

Appropriate storage conditions	Store in a well-ventilated place. Keep container tightly closed. Store the product so that it is not mixed with other products. Store locked up. Keep the container away from direct sunlight and fire.
Safety materials for packaging containers	Use special containers designated by the company (special containers on which surface brand name, usage and precautions are written) when transferring this product to another container.

8. Exposure controls/personal protection

Protective equipment

Respiratory protective equipment	Protective mask
Protective hand equipment	Rubber gloves
Protective eyes equipment	Protective glasses
Protective skin & body equipment	Protective clothing

9. Physical and chemical properties

Physical state	Liquid
Color	Blue green
Odor	Raw material odor
Melting point/Freezing point	No data
Initial boiling point and boiling range	No data
Flammability	No data
Upper/lower flammability or explosive limits	No data

Flash point	No data
Auto-ignition temperature	No data
Decomposition temperature	No data
pH	11.0, approximately (0.5%, 25°C)
Kinematic viscosity	No data
Solubility	The product can be mixed with water at an arbitrary ratio.
Partition coefficient : n-octanol/water	No data
Vapor pressure	No data
Specific gravity (Relative density)	1.1 g/cm ³ (25°C)
Vapor density	No data
Particle properties	Not applicable

10. Stability and reactivity

Stability	Considered stable when stored and handled in accordance with legal regulations.
Possibility of hazardous reactions	It reacts with acid, generating heat.
Conditions to avoid	Contact with incompatible materials
Incompatible materials	Acidic substances
Hazardous decomposition products	No knowledge

11. Toxicological information

Acute toxicity (oral)	No data
Acute toxicity (dermal)	No data
Skin corrosion/irritation	No data
Serious eye damage/eye irritation	No data
Respiratory sensitization	No data
Skin sensitization	No data
Germ cell mutagenicity	No data
Carcinogenicity	No data
Reproductive toxicity	No data
Specific target organ toxicity (single exposure)	No data
(repeated exposure)	No data
Aspiration hazard	No data

12. Ecological information

Ecotoxicity	No data
Persistence/Degradability	No data
Bioaccumulation	No data
Mobility in soil	No data
Hazardous to the ozone layer	No data

13. Disposal considerations

Information on the safe and environmentally sound disposal or recycling of chemicals (residual waste), contaminated containers and packaging containing said chemicals	Refer to the 【7. Handling and storage】. Dispose used containers after thoroughly washing. Dispose of in accordance with all federal, state and local applicable regulations.
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14. Transport information

International regulations	
UN No.	3266
Proper Shipping Name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
UN classification	Class 8

Container grade	II
Marine Pollutant	Not Applicable
Marine regulation information	Conform to IMO regulations.
Aviation regulation information	Conform to ICAO/IATA regulations
Domestic regulations	Follow the applicable laws and regulations.
Specific safety measures and conditions for transportation	Avoid placing the container in direct sunlight or a hot place. When transporting the container, check that there are no leaks and carefully load the container so that it does not fall, drop, or is damaged, and prevent the load from collapsing.

15. Regulatory information (only in Japan)

Industrial Safety and Health Act Enforcement Order Article 18 and Article 18-2

Potassium hydroxide

Industrial Safety and Health Act Enforcement Order Attached Table 1 (Dangerous Materials)

Not applicable

Industrial Safety and Health Act Enforcement Order Attached Table 3 (Specified Chemical Substances, Manufacturing Permitted)

Not applicable

Industrial Safety and Health Act Enforcement Order Appended Table 6-2 (Organic Solvents)

Not applicable

Lead poisoning prevention regulations (Lead and lead compounds specified in Attached Table 4, Item 6 of the Enforcement Order of the Industrial Safety and Health Act)

Not applicable

Tetraalkyl lead poisoning prevention regulations (Tetraalkyl lead specified in Attached Table 5, Item 1 of the Industrial Safety and Health Act Enforcement Order)

Not applicable

Industrial Safety and Health Regulations Article 577-2 (Substances with concentration standards)

Not applicable

Industrial Safety and Health Regulations Article 577-2 (Carcinogenic Substances)

Not applicable

Industrial Safety and Health Regulations Article 594-2 (Chemical substances that cause skin damage)

Potassium hydroxide

2-aminoethanol

Act on Promotion of Ascertainment of Emissions of Specified Chemical Substances into the Environment and Improvement of Management (PRTR)

Class 1 designated chemical substance Polyoxyethylene alkyl ether (5.4%) (control number: 407)

Ethylenediaminetetraacetic acid and its potassium and sodium salts (4.5% as ethylenediaminetetraacetic acid) (control number: 595)

Poisonous and Deleterious Substances Control Law (Poisonous and Deleterious Substances)

Not applicable

Act on Waste Treatment and Cleaning (Specially Controlled Industrial Waste)

Waste alkali

Act on Regulation of Household Products Containing Hazardous Substances (Hazardous Substances)

Not applicable

Chemical Substances Control Law (Class 1 Specified Chemical Substances, Class 2 Specified Chemical Substances)

Not applicable

Fire Service Act (Hazardous materials)

Not applicable

16. Others

Inquiries about the contents of description

Company name	Miccheal Chemical CO., LTD.
Address	2-14 Ishijima, Koto-ku, Tokyo
Department	Reserch and Development
Tel	+(81)72-268-1182
Fax	+(81)72-268-1183

The contents included herein are provided with currently available materials and information, but the assessments on danger and hazards are not necessarily inapplicable. Consequently, the product should be carefully handled. All remarks and precautions are prepared for ordinary handling, and it is the user's responsibility to apply sufficient measures applicable to the event and method of particular use. Furthermore this information may be revised based on new knowledge without notice.