
Safety data sheet

1. Identification

| | |
|---------------------|---|
| Product name | Hyper Clean Eco |
| 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 | Cleaning floors, resin wax surfaces, plastic products, steel products, and sanitary ware. |
| 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 | Not classified |
| - dermal | Not classified |
| - Inhalation, gas | Not classified |
| - Inhalation, vapor | Not classified |
| - Inhalation, dust and mist | Not classified |

Skin corrosion/ irritation Classification not possible

Serious eye damage/eye irritation Category 2

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 |
| - repeated exposure | Category 2 (respiratory system, liver) |

Aspiration hazard Classification not possible

Environmental toxicity**Aquatic environmental toxicity**

| | |
|-----------|-----------------------------|
| - acute | Classification not possible |
| - chronic | Classification not possible |

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

Warning

Hazard information

Causes serious eye irritation

May cause damage to organs through prolonged or repeated exposure (respiratory system, liver)

Instruction**Prevention:**

Do not breathe dust/fumes/gas/mist/vapors/spray.

| | |
|-----------|--|
| Response: | Wash hands thoroughly after handling. |
| | Wear protective gloves/ protective clothes/ protective eyewear/ protective mask. |
| | 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/attention. |
| Disposal: | Call a doctor if you feel unwell. |
| | 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. |
|---|---------------|---------------|
| Surfactants | Nondisclosure | Nondisclosure |
| Sodium 1,4-bis[(2-ethylhexyl)oxy]-1,4-dioxobutane-2-sulfonate | 1-5% | 577-11-7 |
| Builders | Nondisclosure | Nondisclosure |
| Diethylene glycol monobutyl ether | 9.50% | 112-34-5 |
| Coloring | Trace | 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 | Immediately move to a place with fresh air and rest in a posture that is easy to breathe. Call a doctor if you feel unwell. |
| If on skin | Immediately wash off with a large amount of water. Immediately remove any clothes or shoes that liquid has been spilled on. Sufficiently wash any clothes or shoes that liquid has been spilled on before wearing. |
| If in eyes | Rinse cautiously with water for several minutes. Next, remove contact lenses if present and easy to do. Continue rinsing afterwards. If eye irritation persists get medical advice/attention. |
| If swallowed | Immediately wash the person's mouth out with water and ensure they drink a large amount of water. If the person is unconscious, do not put anything in their mouth. Do not induce vomiting and promptly get medical advice/attention. |

5. Fire-fighting measures

| | |
|---|--|
| Extinguisher | This product does not burn. |
| 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.

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.

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.
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

Pink

Odor

Weak raw material odor

Melting point/Freezing point

No data

Initial boiling point and boiling range

It is assumed to have a boiling point similar to that of water.

Flammability

No data

Upper/lower flammability or explosive limits

No data

Flash point

Not measured

Auto-ignition temperature

No data

Decomposition temperature

No data

pH

7-8 (25 °C)

Kinematic viscosity

No data

Solubility

The product can be mixed with water at an arbitrary ratio.

Partition coefficient

No data

: n-octanol/water

Vapor pressure

No data

Specific gravity (Relative density)

Relative density (specific gravity) : 1.03 (25°C)

Vapor density

No data

Particle properties

Not applicable

10. Stability and reactivity

Stability

Safe when handled and stored in accordance with regulations.

Possibility of hazardous reactions

No data

Conditions to avoid

Contact with incompatible materials

Incompatible materials

Acidic and alkaline 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. |
|--|--|

14. Transport information

| | |
|--|--|
| International regulations | |
| UN No. | - |
| Propper Shipping Name | - |
| UN classification | - |
| Container grade | - |
| 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

Diethylene glycol monobutyl ether

Sodium 1,4-bis[(2-ethylhexyl)oxy]-1,4-dioxobutane-2-sulfonate (effective from April 1, 2026)

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 Substances)

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)

224-3: Diethylene glycol monobutyl ether (8-hour concentration standard value 60ml/m²)

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)

Not applicable

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

Class 1 designated chemical substance: Diethylene glycol monobutyl ether 9.5% (control number: 627)

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

Not applicable

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

Not applicable

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.