
Safety data sheet

1. Identification

Product name	PROTECT ZERO
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	For interior chemical flooring
Restrictions on Use	Do not apply to rubber tiles, linoleum or linotile 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
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Serious eye damage/eye irritation	Category 2
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Respiratory sensitization	Classification not possible
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Skin sensitization	Classification not possible
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Germ cell mutagenicity	Classification not possible
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Carcinogenicity	Classification not possible
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Reproductive toxicity	Classification not possible
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Specific target organ toxicity

- single exposure	Classification not possible
- repeated exposure	Category 2 (respiratory system)

Aspiration hazard	Classification not possible
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Environmental toxicity**Aquatic environmental toxicity**

- acute	Category 3
- chronic	Classification not possible

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

Danger

Hazard information

Causes serious eye irritation

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

Harmful to aquatic life

Instruction

Prevention:	Do not breathe dust/mist/vapors/spray. Wash hands thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	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. Get medical advice/attention if you feel unwell.
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.
Metal-crosslinked acrylic copolymer	Nondisclosure	Nondisclosure
Polyolefin Wax	Nondisclosure	Nondisclosure
Alkali soluble resin	Nondisclosure	Nondisclosure
Plasticizer	Nondisclosure	Nondisclosure
Diethylene glycol monoethyl ether	1–10%	111-90-0
Deformer	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	Immediately move to a place with fresh air and rest in a posture that is easy to breathe. Get medical advice/attention if you feel unwell.
If on skin	Wash thoroughly with tap water and apply skin conditioning cream. If skin irritation occurs: Get medical advice/attention.
If in eyes	Leaving contact lenses in may cause blindness so remove them and without rubbing them, wash them in running water for more than 15 minutes. Thereafter, immediately take SDS or this product and see an ophthalmologist.
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	Use general extinguishing agents such as water injection, water spray, water, carbon dioxide, and dry chemicals.
Extinguisher 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	Take care so effluent product is not discharged into rivers, etc. and should prevent a harmful impact to the environment.

Methods and materials for
containment and cleaning up

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.

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

Wash hands, face, etc. thoroughly and gargle after handling.
Do not contact, inhale or swallow.

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

Opal

Odor

Weak fragrance 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

7 - 9

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)

Relative density: 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	No data
Incompatible materials	No data
Hazardous decomposition products	None known

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	
(Acute)	No data
(Chronic)	No data
Persistence/Degradability	No data
Bioaccumulation	No data
Mobility in soil	No data
Hazardous to the ozone layer	No data

13. Disposal considerations

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.	None
Proper Shipping Name	None
UN classification	None
Container grade	None
Marine Pollutant	-

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 monoethyl ether

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)

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)

Not applicable

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

Not applicable

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
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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.