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Safety Data Sheet

1. Identification of the Substance and of the Company

Product Name RP Agent (Type AN)

Company Mitsubishi Gas Chemical Co., Inc.

Address 2-5-2, Marunouchi, Chiyoda-ku, Tokyo

Department in Charge Information & Advanced Materials Company

Prepared by Oxygen Absorbers Division

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Applications and Inquiries https://www.mgc.co.jp/eng/inquiry/products/ageless/

Recommended Use Oxygen absorber

(Restrictions on Use)

Reference Number 1-01-1201-1

2. Hazard Identification (When a wallet ripped.)

GHS Classification Physical Hazards

Explosives Not Applicable
Flammable gasses Not Applicable
Flammable aerosols Not Applicable
Oxidizing gasses Not Applicable
Gases under pressure Not Applicable
Flammable liquids Not Applicable

Flammable solids Classification Not Possible Self-reactive Classification Not Possible

substances/mixtures

Pyrophoric liquids Not Applicable
Pyrophoric solids Not Classified
Self-heating Not Classified

substances/mixtures

Substances/mixtures which, Classification Not Possible

in contact with water, emit

flammable gases

Oxidizing liquids Not Applicable

Oxidizing solids Classification Not Possible

Organic peroxides Not Applicable

Corrosive to metals Classification Not Possible

Health Hazards

Acute toxicity (oral) Not Classified

Acute toxicity (dermal) Classification Not Possible

Acute toxicity Not Applicable

(inhalation: gas)

Acute toxicity Not Applicable

(inhalation: vapor)

Acute toxicity Classification Not Possible

(inhalation: dust)

Acute toxicity Not Applicable

(inhalation: mist)

Skin corrosion/irritation Not Classified Serious eye damage/ Category 1

eye irritation

Respiratory sensitization
Skin sensitization
Germ cell mutagenicity

Classification Not Possible
Classification Not Possible
Classification Not Possible







Carcinogenicity Reproductive toxicity STOT/Systemic toxicity

(single exposure)

STOT/Systemic toxicity (repeated exposure)

Aspiration hazard

Environmental Hazards Aquatic hazard (acute)

Aquatic hazard (long-term) Hazardous to the ozone layer

GHS Label Elements Pictograms/Symbols Classification Not Possible Classification Not Possible Category 1 (respiratory system)

Classification Not Possible

Classification Not Possible

Classification Not Possible Classification Not Possible Classification Not Possible





Signal Word

Hazard Statements

Danger

Serious eye injury

Impairment of respiratory system

Precautionary Statements

Do not handle until all the safety precautions in this SDS have been

read and understood.

Prevention

Use protective gloves, protective clothing, protective eyewear, and a

protective face mask. Do not inhale dust.

Do not eat, drink, or smoke while using the product. Wash hands/face thoroughly after handling the product.

Response

IF INHALED:Remove person to fresh air and keep comfortable for

breathing. Call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of water. Call a POISON CENTER or

doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Do not induce vomiting. Rinse the mouth

thoroughly with water. Call a POISON CENTER or doctor/physician..

IF exposed or concerned: Call a POISON CENTER or

Storage

Store locked up.

Store at 30°C below. Protect from sunlight.

Disposal

Dispose of contents/container in accordance with the Waste Management and Public Cleansing Act and other applicable

regulations.

3. Composition/Information on Ingredients (Contents)

Single product or mixture

Mixture

Chemical Name/Generic Name RP Agent (Type AN)

Ingredient

- (a) Calcined diatomaceous earth
- (b) Calcium oxide
- (c) Hydrocarbon compounds
- (d) Resin powder

Chemical Formula

(a) The principal ingredient is SiO₂.





(b) CaO

(c) Unpublished

(d) Unpublished

CAS Number

(a) 91053-39-3(b) 1305-78-8(c) Unpublished(d) Unpublished

Concentration

(a) Calcined diatomaceous earth
(b) Calcium oxide
(c) Hydrocarbon compounds
(d) Resin powder
10 - 40%
30 - 40%
5 - 20%
10 - 30%

Gazette Reference Number

CSCL

ISHL

TSCA Registration

(a) Not Applicable

(b) (1)-189(c) Registered(d) Registered(a) Not Applicable

(a) Not Applicable (b) Published

(c) Published (d) Published

(a) Registered

(b) Registered(c) Registered(d) Registered

EINECS Number (a) 293-303-4

(b) 215-138-9(c) Unpublished(d) Unpublished(a) Registered

DSL/NDSL Registration

(a) Registered(b) Registered(c) Registered(d) Registered

4. First-Aid Measures

If Inhaled

If Swallowed

(Contents)

Immediately move the victim to a location with fresh air and have him rest while keeping him warm. Seek examination or treatment by a

physician.

If On Skin (or Hair) Wash thoroughly with plenty of water. Seek examination or treatment

by a physician.

If In Eyes Rinse carefully with water for several minutes. If the person is

wearing contact lenses and they can be removed easily, remove them. Continue to wash the eyes. Contact a physician immediately. Do not induce vomiting. Rinse the mouth thoroughly with water, give

one to two cups of water or milk, and seek medical attention. If the victim is unconscious, do not attempt to give him anything orally.

Exposure or fear of exposure Feelings of sickness

Seek examination or treatment by a physician.

Most Serious Symptoms/Effects Eye irritation and pain

Contact a physician.

5. Fire-Fighting Measures

Extinguishing Media Powder, carbon dioxide gas, water mist, foam

Unsuitable Extinguishing Media None

Specific Fire-Fighting Measures In the case of a fire in a surrounding area, remove containers

immediately to a safe place. If containers cannot be removed, cool them by spraying water on them and their surrounding areas.





Special Protective Actions for

Fire-Fighting

In fighting a fire, wear appropriate protection.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures (In event of leak of contents)

Wear proper protective equipment such as a dust-proof respirator,

gloves, and eye protection.

Environmental Precautions
Methods and Materials for
Containment and Cleaning Up

Avoid disposing of the product in the natural environment.

If the bag ruptures and spills its contents, sweep up as much of the product as possible and collect it in an empty container. Then rinse the contaminated area with a large volume of water. Exercise caution so that concentrated wastewater is not discharged directly into a river

or other body of water.

Prevention of Secondary

Hazards

Prevent the spill from entering drainages, sewers, basements, or

closed sites.

7. Handling and Storage

Handling

Technical Measures No local ventilation equipment is required.

(Local exhaust/general ventilation,

etc.)

Precautions for Safe Handling Do not handle until all the safety precautions in this SDS have been

(Including incompatibilities) read and understood.

Wear protective glasses as conditions merit.

Do not open product. Do not inhale product that has spilled from a

ruptured bag.

Hygiene measures Do not eat, drink, or smoke after touching the contents.

Thoroughly wash your hands, face, and eyes after handling the

contents.

Storage

Conditions for Safe Storage Store in a locked facility.

Avoid exposure to direct sunlight. Store at 30°C or below.

Keep away from fire and store away from flammable materials such

as cloth and paper.

Safe Materials for Containers/Packaging

Special containers are not required for storage. However, gas-barrier packaging material should be used to prevent deterioration of product

performance.

8. Exposure Controls/Personal Protection

Exposure Limit (Contents)

Japan Society for Class 1 dust: 0.5 mg/m³ (diatomaceous earth: respirable dust)

Occupational Health (2019) 2.0 mg/m³ (diatomaceous earth: total dust)

ACGIH (2019) TLV-TWA: 0.025 mg/m³ (as respirable crystalline silica)

TLV-TWA: 2 mg/m³ (calcium oxide)

Personal Protective Equipment (When handling contents)
Respiratory Protection Dust-proof respirator

Hand Protection Gloves

Eye Protection Protective glasses, face shield
Skin and Body Protection Work clothing, helmet, safety boots

9. Physical and Chemical Properties (Contents)

Appearance Gray-white powder

Odor (Odor Threshold) Odorless pH Not reported

Melting/Freezing Point 2,580°C (Calcium oxide)
Boiling Point 2,850°C (Calcium oxide)
Flash Point 231°C or higher (Resin powder)

A MITSUBISHI GAS CHEMICAL



Auto-ignition/Ignition

Temperature

Not reported

Not reported

Flammability or Explosive

Limits

Vapor Pressure Not reported Specific Gravity (Density) 0.45 - 0.65 g/ml

Solubility

0.14 g/100 ml water (25°C) (Calcium oxide)

Partition Coefficient:

Not reported

octanol/water

Decomposition Temperature

Not reported

10. Stability and Reactivity

Reactivity/Stability

Reacts with oxygen in the air to generate heat.

Reacts with moisture in the air to generate calcium hydroxide. Reacts vigorously upon contact with oxidizers such as hydrogen

Possibility of Hazardous

peroxide.

Reacts violently upon contact with water and emits a large amount of

heat.

Reacts violently with acids.

Conditions to Avoid Incompatible Materials

Hazardous Decomposition

Products

Reactions

Contact with water, excessive heat

Water, oxidizer, acid

None

11. Toxicological Information

Acute Toxicity Oral rat LD₅₀ (Contents)

>5,000 mg/kg (a)*1) >5,000 mg/kg (b)*2

The product was not classified due to its estimated acute toxicity

value of 4.530 mg/kg.

Skin Corrosion/Irritation Since similar substances that also contain Category 1 calcium oxide

have been described as minor irritants with a PII of 1.0 (which places them outside the range of the classification as defined)*3), and due to its low calcium oxide content compared to those substances, the

product was not classified.

Serious Eye Damage/

Eve Irritation

The calcium oxide contained in the product has been given a GHS

classification of 1 for serious eye injury/irritancy by a liaison conference of government ministries in accordance with the GHS

Classification Guidance (February 10, 2006, edition).*2)

Based on the percentage of calcium oxide contained in the product, the product has been given a GHS classification of 1 for serious eye

injury/irritancy.

Respiratory sensitization

Skin sensitization Germ Cell Mutagenicity Carcinogenicity

Not reported Not reported Not reported

Under certain conditions, some of the calcined diatomaceous earth contained in the product exists as crystalline silica. Although there are descriptions in the literature indicating carcinogenicity in humans of crystalline silica when inhaled as quartz or cristobalite from an occupational source*1) and despite the fact that the GHS ministry liaison conference gave crystalline silica a carcinogenicity rating of 1A based on GHS classification guidance (February 10, 2006,

edition)*2), the product was determined to be "classification not possible" based on the absence of toxicity data evaluating the risk of calcined diatomaceous earth and a comprehensive assessment of hazards posed by other substances contained in the product.

Reproductive toxicity Not reported



STOT/Systemic Toxicity -Single Exposure

The calcium oxide contained in the product has been given GHS classifications of 1 (respiratory system) for specific target organ/systemic toxicity (single exposure) by a liaison conference of government ministries in accordance with the GHS Classification Guidance (February 10, 2006, edition).*2)

Based on the percentage of calcium oxide contained in the product, the product has been given GHS classifications of 1 (respiratory system) for specific target organ/systemic toxicity (single exposure).

STOT/Systemic Toxicity -Repeated Exposure

Under certain conditions, some of the calcined diatomaceous earth contained in the product exists as crystalline silica. Although there are descriptions in the literature indicating that crystalline silica affects respiratory organs and the kidneys when inhaled*1), and despite the fact that the GHS ministry liaison conference gave crystalline silica a specific organ toxicity (repeated exposure) rating of 1 (respiratory system, kidneys) based on GHS classification guidance (February 10, 2006 edition)

Meanwhile, the calcium oxide contained in the product has been given a GHS classification of 1 (respiratory system) for specific target organ/systemic toxicity (repeated exposure) by a liaison conference of government ministries in accordance with the GHS Classification Guidance (February 10, 2006, edition).*2) However for this product to be sealed up and used, single time could be exposured to contents. but repetition could not. So the product was determined to be

"classification not possible" Not reported.

Aspiration hazard

12. Ecological Information

Ecotoxicity Not reported Persistence/Degradability Not reported Bioaccumulative Potential Not reported Mobility in Soil Not reported

Hazardous to the Ozone Layer Not reported (Ingredients are not listed in the annex of the Montreal

Protocol.)

13. Disposal Considerations

Dispose of contents/container in accordance with the Waste Management and Public Cleansing Act and other applicable regulations.

Waste Residues

Do not tear packets of RP agent during disposal.

Dispose of any unused RP agent as well as any RP agent that retains

its efficacy as follows:

After separating the product from other waste, collect it in a small, hole-free polypropylene bag. Take steps to prevent exposure to water, for example by tying the bag closed, and incinerate.

Do not place RP agent in the same polypropylene bag as flammable

materials such as cloth or paper scraps.

In light of the fact that large quantities of the product may give off heat if collected together, limit the amount of RP agent collected in any

single polypropylene bag to about 500 g.

Take steps to ensure that any heat generated by polypropylene bags or other containers holding RP agent will dissipate and store apart

from other waste.

Avoid storing RP agent tagged for disposal in locations where it would be exposed to high temperatures, for example due to heat of fire or direct sunlight.

Contaminated Containers and

After removing deposits, dispose of containers. Treat waste liquid used for cleaning in the same way for waste residues.

Packaging

14. Transportation Information



International Regulation

UN Class Not applicable*3) *4)
UN Number Not applicable
Marine pollutant Not applicable

Japanese Regulation

Transport by Land Does not belong to the dangerous goods. Transport by Sea Does not belong to the dangerous goods. Transport by Air Does not belong to the dangerous goods.

Special safety measures and

conditions

Prevent wetting by rainwater using a sheet. Verify that containers are leak-free when transporting the product. Carefully load the product while preventing dropping, damage, and collapse.

write preventing drop

Emergency response guide no. Not applicable

15. Regulatory Information
Industrial Safety and Health

Law

(Contents)

Article 57 Paragraph 2: Notifiable substance (silica [calcined

diatomaceous earth], calcium oxide)

Article 594 of the Ordinance on Industrial Safety and Health:

Substances harmful to skin (calcium oxide)

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof, Poisonous and Deleterious Substances Control Act, Fire Service Act, Ship Safety Act, and Civil Aeronautics Act are not applicable.

16. Other Information References

- *1) Website of Chemical Management Center of National Institute of Technology and Evaluation (NITE ID:H27-A-041/C-112A_P)
- *2) Website of Chemical Management Center of National Institute of Technology and Evaluation (NITE ID:H28-B-011,C-014B)
- *3) Test results from our Niigata Research Laboratory(PIT-9613)
- *4) Corrosion Testing Laboratories, Inc., Reference No. 23100 (date of

Subject

This Safety Data Sheet includes information about the product as shipped in small packages.

Disclaimer

The contents herein are based on materials, information, and data available as of today. However, concentrations, physicochemical properties, and hazards in this SDS are not guaranteed. As precautions are described on the subject of the normal use and handling, please take appropriate safety measures for special use and handling.

Furthermore, GHS classifications were made in accordance with Japanese standards; and therefore, some of the results may be different from those done according to overseas standards.

