三菱ガス化学

SAFETY DATA SHEET

MGC

1. Chemical and company identification

Name of chemical (Product name) RP Agent (Type AE)

Supplier's company name, address and phone number

Company name	MITSUBISHI GAS CHEMICAL COMPANY, INC.
Address	5-2, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8324, Japan
Department in Charge	LivingTech and Hygiene Solutions Division, Specialty Chemical Business Sector
Telephone Number	+81-3-3283-4867
Facsimile Number	+81-3-3287-1785
Emergency Telephone Number	+81-3-3283-4867
Product code	1-01-1701-1

Recommended use of the chemical and restrictions on use

Intended use Oxygen absorbing agent

Since it is a molded product, it is not subject to GHS.

The properties of the contents and the regulations as chemical substances described in the following sections do not apply to this product.

Restrictions on use Do not use for purposes other than the above.

2. Hazards identification

GHS classification

Physical hazards	The product is not classified according to GHS.	
Health hazards	Serious eye damage/eye irritation	Category 1
	Specific target organ toxicity, single exposure	Category 1 (respiratory system)
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
Environmental hazards	The product is not classified according to GHS.	

GHS label elements

Pictograms

Signal words Danger

Hazard statement

H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H370	Causes damage to organs (respiratory system).

Precautionary statement

Prevention

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection/face protection.

Response

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification None known.

Supplemental information Describes the hazards of the contents leaked when the pouch is torn or opened. The description does not apply to this sealed product.

3. Composition/information on ingredients

Substance or mixture Mixture

Components	CAS Number	Gazette notification ENCS no.	Gazette notification ISHL no.	Concentration (%)
Calcium oxide	1305-78-8	(1)-189	(1)-189	30 - 40
Kieselguhr, calcined	91053-39-3	NA	NA	10 - 40
Hydrocarbon compounds	Not disclosed	-	-	5.0 - 30
Resin powder	Not disclosed	Not disclosed	Not disclosed	5.0 - 20

4. First aid measures

If inhaled When the sachet tears and inhales the substance. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

If on skin When the sachet tears and the substance contact the skin. Wash off with soap and water. Get medical attention if irritation develops and persists.

If in eyes When the sachet is torn and the substance gets into the eye. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

If swallowed If the sachet tears and swallows the substance. Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

Protection of first-aid responders If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Notes to physician Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Fire-fighting measures

Extinguishing media Water spray. Foam. Powder. Carbon dioxide (CO2).

Extinguishing media to avoid Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards During fire, gases hazardous to health may be formed.

Special fire fighting procedures Use water spray to cool unopened containers.

Protection of fire-fighters Wear suitable protective equipment.

General fire hazards No unusual fire or explosion hazards noted.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures When a substance leaks. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Environmental precautions When a substance leaks. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up Large Spills: Following product recovery, flush area with water.

Small Spills: Clean the surface to remove any residual contaminants.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation)	Provide adequate ventilation. No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the SDS for additional personal protection advice when handling this product.
Safe handling advice	Do not open the product pouch. Keep substances out of contact with eyes. Use personal protection recommended in Section 8 of the SDS.
Contact avoidance measures	Chlorine. Fluorine. For further information, please refer to section 10 of the SDS.
Hygiene measures	If a substance adheres. Wash contaminated clothing before reuse.

Storage

Safe storage conditions	Store locked up. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).
Safe packaging materials	Use gas barrier packaging material so that the power may not deteriorate.

8. Exposure controls/personal protection

Control parameters Follow standard monitoring procedures.

Occupational exposure limits

Japan. OELs - ISHL. Working Environment Measurement Standards, Ministry of Labor Notice No. 79 of September 1, 1988, as amended

Components	Type	Value	Form
Kieselguhr, calcined (CAS 91053-39-3)	TLV	0.025 mg/m3	Dust.

Japan. OELs - JSOH (Japan Society of Occupational Health) Recommendation of Occupational Exposure Limits

Components	Type	Value	Form
Kieselguhr, calcined (CAS 91053-39-3)	TWA	2 mg/m3	Total dust.
		0.5 mg/m3	Respirable dust.

US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value
Calcium oxide (CAS 1305-78-8)	TWA	2 mg/m3

Engineering measures No special equipment is required to handle sachet products.

Personal protective equipment

Respiratory protection	When handling substances. In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	When handling substances. Wear suitable protective gloves.
Eye protection	When handling substances. Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection	When handling substances. Wear suitable protective clothing. Use of an impervious apron is recommended.

9. Physical and chemical properties

Physical state	Solid.
Form	Granular.
Color	Brown. Grey. White. Black.
Odor	Odorless.
Melting point/freezing point	4661.6 °F (2572 °C) CaO
Boiling point, initial boiling point, and boiling range	5162 °F (2850 °C) CaO
Combustibility	Not available.

Lower and upper explosion limit / flammability limit

Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Flash point	≥392.0 °F (≥200.0 °C) Resin powder

	none
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	Not available.
Kinematic viscosity	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapor pressure	Not available.
Density and/or relative density	
Density	Not available.
Relative density	Not available.
Vapor density	Not available.
Particle characteristics	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	Reacts with oxygen in the air.
Chemical stability	If it is opened in air, it may oxidize and generate heat.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Exposure to moisture. Contact with incompatible materials. Contact with air.
Incompatible materials	Water. Strong oxidizing agents. Chlorine. Fluorine. Acids, oxidizing compounds.
Hazardous decomposition products	None.

11. Toxicological information

Acute toxicity	ATEmix (oral): >3468 mg/kg
Skin corrosion/irritation	Not classified. (OECD TG404) * 1)
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitization	
Respiratory sensitization	Not available.
Skin sensitization	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	

IARC Monographs. Overall Evaluation of Carcinogenicity

Kieselguhr, calcined (CAS 91053-39-3)	3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Causes damage to organs (respiratory system). May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not available.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	Not available.
Bioaccumulation	Not available.
Mobility in soil	Not available.

Hazardous to the ozone layer Not available.

Other hazardous effects Not available.

13. Disposal considerations

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Local disposal regulations Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste.

14. Transport information

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

National regulations Follow regulation in section 15 for domestic transportation.

15. Regulatory information

Industrial Safety and Health Act

Notifiable substances (SDS and Risk Assessment) (Ordinance No, Concentration, Enforcement date)

Calcium oxide	Ordinance No. 190	30 - 40 %
Crystalline silica(Kieselguhr, calcined)		

Labeling substances

Calcium oxide	Ordinance No. 190	30 - 40 %
Crystalline silica(Kieselguhr, calcined)		

Carcinogenic Substances (Article 577-2 of the Occupational Health and Safety Regulations)

Crystalline silica(Kieselguhr, calcined)

Poisonous and Deleterious Substances Control Act

Specified poisonous substances

Not regulated.

Poisonous substances

Not regulated.

Deleterious substances

Not regulated.

Act on the Regulation of Manufacture and Evaluation of Chemical Substances

Class I specified chemical substances

Not regulated.

Class II specified chemical substances

Not regulated.

Monitoring chemical substances

Not regulated.

Priority Assessment Chemical Substances (PACs)

Not regulated.

Reporting Exempted Substances

Calcium oxide (CaO)

Silicon dioxide

Law concerning Pollutant Release and Transfer Register from April 1, 2023

Specified class 1 substances (substance name, control number and content)

Not regulated.

Class 1 substances (substance name, control number and content)

Not regulated.

Class 2 substances (substance name, control number and content)

Not regulated.

Fire Service Act Not dangerous goods under Fire Service Law

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule Not regulated.

Air Law, Enforcement Rule Not regulated.

Explosives Control Act

Not regulated.

Act on Prevention of Marine Pollution and Maritime Disaster

Microsilica slurry Category: Other Substances

Other information Skin and Eye Damage Substances for PPE Requirements (ISHL Mo Art . 594-2): Calcium oxide.

16. Other information

Bibliography

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
HSDB® - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity
Japan Chemical Industry Association (JCIA) GHS Guideline, June 2019
Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits
JIS Z 7252:2019 Classification of chemicals based on “Globally Harmonized System of Classification and Labelling of Chemicals (GHS)”
JIS Z 7253:2019 Hazard communication of chemicals based on GHS - Labelling and Safety Data Sheet (SDS)
National Toxicology Program (NTP) Report on Carcinogens
*1) Japan Food Research Laboratories Report25037688001-0101(07/10/2025)

MITSUBISHI GAS CHEMICAL COMPANY, INC. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user’s responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.