

February 8, 2018

		Safety Data Sheet			
IDENTIFICATION OF	THE SUBSTAN	CE/PREPARATION AND THE COMPANY/UNDERTAKING			
Product name	CaSiR-1 AM				
Product code	GC403, GC404				
Company name	GORYO Chemica	al, Inc.			
Address	EAREE Bldg. 5F	F, Kita 8 Nishi 18-35-100 Chuo-ku, Sapporo 060-0008, Japan			
Department	Product Develop	ment Div.			
Tel	+81-11-624-5860				
Fax	+81-11-351-1822				
E-mail	info@goryochemi	<u>ical.com</u>			
HAZARDS IDENTIFIC					
GHS classification					
	he substance or mix				
PHYSICAL HAZ		Classification not possible			
HEALTH HAZA		Classification not possible			
ENVIRONMEN	AL HAZARDS	Classification not possible			
Label elements					
Pictograms or ha	zard symbols	None			
Signal word		No signal word			
Hazard statemer		None			
Precautionary st		None			
COMPOSITION/INFO					
Substance or Mixe					
Compound name	CaSiR				
Percent	≥70%	(LC)			
. FIRST AID MEASURE	is				
Skin contact					
	-	ith plenty of water. If symptoms persist, call a physician.			
	ı stimulates or rasl	h appears, call a physician.			
Eye contact					
		lenty of water, also under the eyelids. If symptoms persist, consult a			
physi					
	off your contact len	as when wash with water.			
Inhalation					
		nediately, give a rest and keep warm covering the body with blanket, and			
	obtain medical attention.				
	ing bad, call a phys	sician.			
Ingestion					
	• Rinse out mouth thoroughly with water.				
	ing bad, call a phys	sician.			
Protection of first-					
		ersonal protective equipment, such as rubber gloves and airtight goggles.			
. FIRE-FIGHTING MEA					
Suitable extinguis	-	Water spray, Alcohol resistance, Powder, Carbon dioxide			
Specifically dange	rous hazards	Thermal decomposition can lead to release of irritating and toxic gase and vapors.			
Extinguishing me	thod	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is			

used. Uninvolved persons should evacuate to a safe place. In case of fire

in the surroundings: Remove movable containers if safe to do so. Use personal protective equipment as required

Protection of fire-fighters 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

- \cdot Go to the windward, and wearing protective clothing during procedures is imperative.
- · Keep away the people under lee and seal off by roping spill site.
- Keep away near inflammables swiftly and prepare fire-fighting equipment.

Environmental precautions

Prevent product from entering drains.

Methods and materials for containment and cleaning up

• Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Put all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose of contaminated clothing.

7. HANDLING AND STORAGE

Handling

Technical measures

- Handling is performed in a well-ventilated place.
- $\boldsymbol{\cdot}$ Avoid contact with skin, eyes and clothing.
- Wear suitable protective equipment.
- Wash hands and face thoroughly after handling.
- · Use a local exhaust if dust or aerosol will be generated.

Advice on safe handling

- Handle in accordance with good industrial hygiene and safety practice.
- \cdot Vessel shouldn't be treated violently, such as rolling, shocking or dragging.

Storage

- Storage conditions
 - Keep container tightly closed. Store in a dark place under -20 degrees Celsius.
 - Avoid long storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls		Install a closed system or local exhaust.			
		Install safety shower and eye bath.			
Control parameters		Not set up			
Personal protective equipment					
	Respiratory protection	Dust respirator			
	Hand protection	Protective gloves			
	Eye protection	Safety glasses			
	Skin and body protection	Protective clothing. Protective boots, if the situation requires.			
uvq					

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (color/form)	Dark blue/hygroscopic solid
Odor	Odorless
pH	No data available
Melting point/freezing point	No data available
Boiling Point/Range	No data available
Flash Point	No data available
Explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Density	No data available
Solubility(ies)	
[Water]	No data available
[Other solvents]	
Soluble	Dimethyl sulfoxide, Methanol

	Firing point	No data available				
Decomposition temperature No data available		No data available				
10. STABILITY AND REACTIVITY						
	Stability	Stable u	nder proper conditions.			
Reactivity		None un	der normal processing.			
	Incompatible materials	Strong or	xidizing agents, reducing agents			
	Hazardous Decomposition Pr	oducts None un	der normal use.			
11. TOX	ICOLOGICAL INFORMAT	ION				
	Acute Toxicity		No data available			
	Skin corrosion/irritation		No data available			
	Serious eye damage/irritation	l	No data available			
	Respiratory sensitization		No data available			
	Skin sensitization		No data available			
	Reproductive cell mutagenici	ty	No data available			
	Carcinogenicity		No data available			
	Reproductive toxicity		No data available			
	STOT-single exposure		No data available			
	STOT-repeated exposure		No data available			
	Aspiration hazard		No data available			
12. ECC	DLOGICAL INFORMATION	ſ				
	Ecotoxicity effects		No information available			
	Mobility		No information available			
	Biodegradation		No information available			
	Bioaccumulation		No information available			
	Hazard to the ozone layer		No information available			
13. DIS	POSAL CONSIDERATION	5				
	Chemical materials					
	• Dispose of in acce	ordance with local re	egulations.			
	Polluted vessels and package					
• Dispose of in accordance with local regulations.						
14. TRA	NSPORT INFORMATION					
	ADR/RID	Not regu	lated			
	UN number	-				
	Proper shipping name					
UN classification						
	Subsidiary hazard class					
	Packing group Marine pollutant					
			No information available			
IMDG Not regulated UN number - Proper shipping name - UN classification - Subsidiary hazard class - Packing group -						
		Not regu	Not regulated			
		-				
	Marine pollutant (Sea)		No information available			
Transport in bulk according to Annex II of MARPOL 73/78 and			No information available			
		and				
the IBC Code						
	ТАЛТА	NT /	1.4.1			
	IATA	Not regu	Ιατέα			
	UN number	-				
			D / A			

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Proper shipping name UN classification Subsidiary hazard class Packing group Environmentally Hazardous No informa Substance

No information available

15. REGULATORY INFORMATION

Not applicable

16. OTHER INFORMATION

International Chemical Safety Card (ICSC) database in Japanese (National Institute of Health Sciences)

• This MSDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity.

- Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used.
- · Some new information or amendments may be added afterwards.
- If the products are to be used far behind the expected time of use or if you have any questions, please feel free to contact us.