SAFETY DATA SHEET

 SDS No.
 : 10000US

 Revision
 : 1

 Prepared Date
 : 29/03/2019



1. Identification		
GHS product identifier	: YMC *GEL SIL, YMC *GEL SIL-HG	
Chemical name	: Silica gel	
CAS number	: Not available.	
Other means of	: -	
identification		
Product use	: Packing for Liquid Chromatography.	
Supplier's details	: YMC America, Inc.	
	941 Marcon Blvd., Suite 201	
	Allentown, PA 18109	
	U.S.A.	
	TEL: +1-610-266-8650	
e-mail address of person responsible for this SDS	: sales@ymc.co.jp	
Emergency telephone number (with hours of operation) 2. Hazards identification	: +1-610-266-8650 (9:00-17:00 EST)	
OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.	
Classification of the	Not classified.	
substance or mixture		
GHS label elements		
Signal word	: No signal word.	
Hazard statements	: No known significant effects or critical hazards.	
Precautionary statements		
Prevention	: Not applicable.	
Response	: Not applicable.	
Storage	: Not applicable.	
Disposal	: Not applicable.	
Hazards not otherwise	: None known.	
classified		
3. Composition/Information on	ngredients	
Substance/mixture	: Substance	
Chemical name	: Silica gel	
Other means of	: -	
identification		

CAS number	•	Not available.		
	Ingredien	t name	%	CAS number
Silica gel			100	7631-86-9
Any concentration shown as a ran	ge is to prot	ect confidentiality or is due to batch variati	on.	
There are no additional ingredie	nts presen	t which, within the current knowledge	of the supplier and in the	
concentrations applicable, are c	lassified as	s hazardous to health or the environme	ent and hence require reporti	ng
n this section.				
Occupational exposure limits, if	available, a	are listed in Section 8.		
4. First aid measures				
Description of necessary first	aid measu	res		
Eye contact	:		vater occasionally lifting the up	oper and lower eyelids. Check for and remov
,		any	······; · · · · ·····; ······; ······; ·····;	· · · · · · · · · · · · · · · · · · ·
		contact lenses. Get medical attention if	irritation occurs.	
Inhalation	:			or breathing. Get medical attention if sympton
		occur.	•	v
Skin contact	:	Flush contaminated skin with plenty of	water. Remove contaminated c	lothing and shoes.
		Get medical attention if symptoms occu	ır.	-
Ingestion	:	Wash out mouth with water. Remove	victim to fresh air and keep at	rest in a position comfortable for breathing.
		material has been swallowed and the e	exposed person is conscious, giv	ve small quantities of water to drink.
		Do not induce vomiting unless directed	to do so by medical personnel.	Get medical attention if symptoms occur.
Potential acute health effective contact	:	Exposure to airborne concentrations at may cause irritation of the eyes.		
Inhalation	:	Exposure to airborne concentrations at may cause irritation of the nose, throat a	•	exposure limits
Skin contact	:	No known significant effects or critical h	azards.	
Ingestion	:	No known significant effects or critical h	azards.	
Over-exposure signs/sympton	ns			
Eye contact	:	Adverse symptoms may include the fol	lowing:	
		irritation		
		redness		
Inhalation	:	Adverse symptoms may include the fol	lowing:	
		respiratory tract irritation		
Skin contact		coughing No apositio data		
Skin contact		No specific data.		
Indection	:	No specific data.		
Ingestion		and special treatment needed, if neces	sary	
-	attention			y if large
-	ll attention :	Treat symptomatically. Contact poison		
Indication of immediate medica	l attention :	• • • • •		
Indication of immediate medica	il attention : :	Treat symptomatically. Contact poison quantities have been ingested or inhale No specific treatment.		
Indication of immediate medica Notes to physician	il attention : : :	quantities have been ingested or inhale	d.	training.

5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing	: Use dry chemical powder. Non-combustible. Use an extinguishing agent suitable for the surrounding fire.
media	
Unsuitable extinguishing	: Do not use water jet.
media	
Specific hazards arising	: No specific fire or explosion hazard.
from the chemical	
Hazardous thermal	: Decomposition products may include the following materials:
decomposition products	metal oxide/oxides
Special protective actions	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be
for fire-fighters	taken involving any personal risk or without suitable training.
Special protective	: Fire-fighters should wear appropriate protective equipment and self-contained breathing
equipment for fire-fighters	apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Remark	Non-combustible.
Remark (Explosibility)	Not considered to be a product presenting a risk of explosion. When you handle this silica with low electro conductive
	materials, the material may highly be charged with electricity.
6. Accidental release measure	S
	ve equipment and emergency procedures
For non-emergency	No action shall be taken involving any personal risk or without suitable training.
personnel	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from
personner	entering. Do not touch or walk through spilled material. Avoid breathing dust. Put on
F	appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in
	Section 8 on suitable and unsuitable materials.
	See also the information in "For non-emergency personnel".
	• A still die soort of solling to start hand some off and south start with a sill start and south starts
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains
	and sewers. Inform the relevant authorities if the product has caused environmental
	pollution (sewers, waterways, soil or air).
Mothodo and materials for contai	
Methods and materials for contai	
Small spill	Move containers from spill area. Vacuum or sweep up material and place in a
	designated, labeled waste container. Dispose of via a licensed waste disposal
	contractor.
Large spill	Move containers from spill area. Approach release from upwind. Prevent entry into
	sewers, water courses, basements or confined areas. Vacuum or sweep up material
	and place in a designated, labeled waste container. Avoid creating dusty conditions and
	prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see
	Section 1 for emergency contact information and Section 13 for waste disposal.
7. Handling and storage	
Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust.
Advice on general	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
occupational hygiene	Workers should wash hands and face before eating,
	drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See
	also
	Section 8 for additional information on hygiene measures.
Conditions for safe storage,	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and
including any incompatibilities	well-ventilated area, away from incompatible materials(see Section 10) and food and drink. Keep container tightly
	closed and sealed until ready for use.
	Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
	Do not store in unlabeled containers. Like appropriate containment to avoid environmental contamination. See

Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See

Section 10 for incompatible materials before handling or use.

8. Exposure controls/personal protection

<u>Control parameters</u> Occupational exposure limits

	Ingredient name	Exposure limits
silicon dioxide		NIOSH REL (United States, 10/2016).
		TWA: 6 mg/m ³ 10 hours.
Appropriate engineering	• •	n. If user operations generate dust, fumes, gas, vapor or mist, use process
controls	enclosures,	
		engineering controls to keep worker exposure to airborne contaminants below an
Environmental exposure	recommended or statutory limits.	k process or import should be should be analyzed to analyze they comply with the
controls		k process equipment should be checked to ensure they comply with the
		otection legislation. In some cases, fume scrubbers, filters or engineering pment will be necessary to reduce emissions to acceptable levels.
ndividual protection measures	modifications to the process equip	
Hygiene measures	: Wash hands, forearms and face t	thoroughly after handling chemical products, before eating, smoking and using the
		king period. Appropriate techniques should be used to remove potentially
	contaminated clothing.	
		ore reusing. Ensure that eyewash stations and safety showers are close to the
	workstation location.	
Eye/face protection	: Safety eyewear complying with an	n approved standard should be used when a risk assessment indicates this is
	necessary to avoid exposure to lic	quid splashes, mists, gases or dusts. If contact is possible, the following protectior
	should be worn, unless the asses	sment indicates a higher degree of protection: safety glasses with side-shields.
	If operating conditions cause high	n dust concentrations to be produced, use dust goggles.
Skin protection		
Hand protection		oves complying with an approved standard should be worn at all times when
	handling	ment indicates this is necessary. Considering the nerometers encotified by the gla
	·	ment indicates this is necessary. Considering the parameters specified by the glo hat the gloves are still retaining their protective properties. It should be noted that t
	-	e material may be different for different glove manufacturers. In the case of mixture
	0 ,0	the protection time of the gloves cannot be accurately estimated.
Body protection	-	r the body should be selected based on the task being performed and the risks
,		l by a specialist before handling this product.
Other skin protection		ditional skin protection measures should be selected based on the task being
•	performed and the risks involved a	and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potentia	al for exposure, select a respirator that meets the appropriate standard or
	certification.	
	Respirators must be used accord	ling to a respiratory protection program to ensure proper fitting, training, and other
	Important aspects of use.	
	Recommended: Ensure an N	MSHA/NIOSH-approved respirator or equivalent is used.

9. Physical and chemical prop	perties	
<u>Appearance</u>		
Physical state	:	Solid. [Powder.]
Color	:	White.
Odor	:	Odorless.
Odor threshold	:	Not applicable.
рН	:	5 to 8 [Conc. (% w/w): 10%]
Melting point	:	1726°C (3138.8°F)
Boiling point	:	2230°C (4046°F)
Flash point	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Non-combustible.
Lower and upper explosive	:	Not available.
(flammable) limits		
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.

HCS 2012 - United States

Density	: 0.2 to 0.	6 g/cm³			
Solubility	: Not avai	lable.			
Solubility in water	: 120 ppn	า			
Partition coefficient: n-octanol/	: Not avai	lable.			
water					
Auto-ignition temperature	: Not avai	lahle			
Decomposition temperature	: Not avai				
Viscosity	: Not avai				
Explosive properties			roduct presenting a risk of	explosion.	
Oxidizing properties	: No oxidi	zing ingredients p	present.		
10. Stability and reactivity					
Reactivity	: No spec	ific test data relat	ed to reactivity available fo	or this product or its ingredients.	
Chemical stability	: The pro	duct is stable.			
Descibility of bazardous	. Under n	ormal conditions	of storage and use hoze	rdaua raadiana will nat aaaur	
Possibility of hazardous	. Undern		or storage and use, hazar	rdous reactions will not occur.	
reactions					
Conditions to avoid	: No spec	ific data.			
Incompatible materials	: No spec	ific data			
incompatible materials	molten a				
	hydroflu	oric acid			
Hazardous decomposition	: Under n	ormal conditions	of storage and use, haza	rdous decomposition products	should not be produced.
products					
11. Toxicological information					
Information on toxicological effect	ts				
Acute toxicity					
	Desult		Crasica	Dees	F irm a suma
Product/ingredient name	Result		Species	Dose	Exposure
silicon dioxide	LD50 Oral		Rat	>5000 mg/kg	-
Conclusion/Summary	: Based o	n available data,	the classification criteria a	ire not met.	
Irritation/Corrosion					
Conclusion/Summary	: Not avai	lable.			
Sensitization					
Conclusion/Summary	: Not avai	lahle			
-	. Notava				
Mutagenicity					
Conclusion/Summary	: Not avai	ladie.			
Carcinogenicity					
Conclusion/Summary	: No know	n significant effe	cts or critical hazards.		
<u>Classification</u>					
Product/ingredient name	OSHA	IARC	NTP		
silicon dioxide	-	3	-		
Reproductive toxicity Conclusion/Summary	: Notava				
•					
Teratogenicity	. NI.4.	lahla			
Conclusion/Summary	: Not avai	Iadie.			
Specific target organ toxicity (sin	<u>gle exposure)</u>				
Not available.					
Specific target organ toxicity (rep	eated exposure)				
Not available.					
Aspiration hazard					
Not available.					

Information on the likely	:	Not available.
routes of exposure		
Potential acute health effects		
Eye contact	:	Exposure to airborne concentrations above statutory or recommended exposure limits
		may cause irritation of the eyes.
Inhalation	:	Exposure to airborne concentrations above statutory or recommended exposure limits
		may cause irritation of the nose, throat and lungs.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the physical, o	<u>cnemica</u>	
Eye contact	•	Adverse symptoms may include the following: irritation
		redness
Inhalation		
Innaiauon	•	Adverse symptoms may include the following: respiratory tract irritation
		coughing
Skin contact		No specific data.
Ingestion	:	No specific data.
	•	
Delayed and immediate effects and	also ch	nronic effects from short and long term exposure
Short term exposure		
Potential immediate	:	Not available.
effects		
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate	:	Not available.
effects		
Potential delayed effects	:	Not available.
Potential chronic health effects		
Not available.		
Conclusion/Summary	:	Not available.
General	:	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Numerical measures of toxicity		
Acute toxicity estimates		
Not available.		
12. Ecological information		
Toxicity		N1-4
Conclusion/Summary	:	Not available.
Pareistance and degradability		
Persistence and degradability		Not available
Conclusion/Summary	•	Not available.
Bioaccumulative potential		
Not available.		
Mobility in soil		
Soil/water partition	:	Not available.
coefficient (K _{oc})	-	
Mobility		Not available.
monity	•	
Other adverse effects	:	No known significant effects or critical hazards.
	•	

13. Disposal consi Disposal methods		The generation of wa	ste should he avoided	or minimized whereve	rnossible Dienceal of	this product solutions ar	
Disposal methods :		The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and					
		any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a					
		• •	• •			•	
				•		ver unless fully complian	
			-		kaging should be recyc	led. Incineration or landfi	
			dered when recycling is				
			container must be dispo				
A Transit info		product residues. Ave	old dispersal of spilled r	naterial and runoff and	I contact with soil, wate	rways, drains and sewe	
14. Transport info							
	DOT	TDG	Mexico	ADR/RID	IMDG	IATA	
	Classification	Classification	Classification				
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	
UN proper	-	-	-	-	-	-	
shipping name							
Transport	-	-	-	-	-	-	
hazard class(es)							
Label							
Packing group	-	-	-	-	-	-	
Environmental	No.	No.	No.	No.	Marine	No.	
hazards	140.	140.	110.	110.	Pollutant: No	110.	
		persons transporting	the product know what	to do in the event of a	n accident or spillage.		
Transport in bulk acc	ording						
	orung .	Not available.					
o Annex II of MARPO	-	Not available.					
	-	Not available.					
the IBC Code	DL and	Not available.					
the IBC Code 15. Regulatory info	DL and ormation		xempt/Partial exempti	on: Not determined			
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International regulations			
Chemical Weapon Convention	on List Schee	dules I, II & III Chemicals	
Not listed.			
Montreal Protocol (Annexes	A, B, C, E)		
Not listed.			
Stockholm Convention on P	orsistant Ora	anic Pollutants	
Not listed.	ersistent org		
Rotterdam Convention on P	rior Informed	Consent (PIC)	
Not listed.			
UNECE Aarhus Protocol on	POPs and He	eavy Metals	
Not listed.			
Inventory list			
Australia	:	All components are listed or exempted.	
Canada	:	All components are listed or exempted.	
China	:	All components are listed or exempted.	
Europe	:	All components are listed or exempted.	
Japan	:	Japan inventory (ENCS):	
		All components are listed or exempted.	
		Japan inventory (ISHL):	
		All components are listed or exempted.	
Malaysia	:	All components are listed or exempted.	
New Zealand	:	All components are listed or exempted.	
Philippines	:	All components are listed or exempted.	
Republic of Korea	:	All components are listed or exempted.	
Taiwan	:	All components are listed or exempted.	
Turkey	:	All components are listed or exempted.	
United States	:	All components are listed or exempted.	
		For research and development use only by technically qualified individualy under	
		section 5(h)(3) of the Toxic Substances Control Act (TSCA).	
		Restrictions on use: This product may not be used for commercial purposes or in	
		formulations used for commercial purposes.	



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Procedure used to derive the classification

	Classification			Justification		
Not classified.	Not classified.					
History						
Date of printing	:	29/03/2019				
Date of issue/Date of	:	29/03/2019				
revision						
Date of previous issue	:	No previous validation				
Version	:	1				

Key to abbreviations	:	ADR = The European Agreement concerning the International Carriage of Dangerous
		Goods by Road
		ATE = Acute Toxicity Estimate
		BCF = Bioconcentration Factor
		DOT = Department of Transportation
		GHS = Globally Harmonized System of Classification and Labelling of Chemicals
		IATA = International Air Transport Association
		IBC = Intermediate Bulk Container
		IMDG = International Maritime Dangerous Goods
		LogPow = logarithm of the octanol/water partition coefficient
		MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
		as modified by the Protocol of 1978. ("Marpol" = marine pollution)
		RID = The Regulations concerning the International Carriage of Dangerous Goods by
		Rail
		TDG = Transportation of Dangerous Goods
		UN = United Nations
References	:	Not available.
Indicates information that has	s changed fr	rom previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.