# SAFETY DATA SHEET

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1. PRODUCT AND COMPANY IDEN	TIF	ICATION		
PRODUCT NAME	:	Cobalt Free Silica Gel Air I	Dryer	
NAME OF MANUFACTURER	:	GL Sciences Inc.		
ADDRESS	:	22-1 Nishishinjuku 6-chom	e Shinjuku-ku	Tokyo 163-1130, Japan
CHARGE SECTION	:	International Sales Section	า	
TELEPHONE No.	:	+81-3-5323-6620		
FACSIMILE No.	:	+81-3-5323-6621		
PRODUCT No.	:	3001-17111		
SDS No.	:	3001-17111		
Research use only.				

### 2. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS

This product is the Air Dryer packed with a Silica gel include "Dichloro tetraphenylporphyrinato phosphorous(V) chloride "as the indicator. Although this product is not dangerous goods, we show some data about this packing material for the information supplement below.

GHS CLASSIFICATION	:	Classification not possible
HAZARDS SYMBOL	:	
SIGNAL WORD	:	
HAZARD STATEMENTS	:	
PRECAUTIONARY STATEMENTS	:	
OTHER INFORMATIONS	:	May be harmful if inhaled and ingested.
		May cause eye and skin irritation.
		Dispose of contents/container in accordance with all applicable r

Dispose of contents/container in accordance with all applicable regulations.

: Eye irritation, skin irritation, digestive tract irritation, respiratory tract irritation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : Cobalt Free Silica Gel Air Dryer

CHEMICAL NAME	CONTENT	CHEMICAL FORMULA	CAS No.	TSCA INVENTRY	EINECS No.	EC INDEX No.
Silica gel	> 99 %	SiO2	7631-86-9	Listed	231-545-5	Not established
Dichlorophosphorous tetraphenylporphyrin chloride	≦0.1 %	C44H28Cl3N4P	84896-72-0	Not listed	Not established	Not established
Calcium chloride	≦0.1 %	CaCl2	10043-52-4	Listed	233-140-8	Not established

4. FIRST AID MEASURES	
GENERAL ADVICE	: Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.
INHALATION	<ul> <li>Move victim to fresh air and gargle. If breathing is difficult, give oxygen.</li> <li>If irritation persists, consult a physician.</li> </ul>
SKIN CONTACT	<ul> <li>Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.</li> </ul>
EYE CONTACT	: Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.
INGESTION	: Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician.

## PRODUCT NAME : Cobalt Free Silica Gel Air Dryer

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5. FIRE FIGHTING MEASURES					
EXTINGUISHING MEDIA	: This product is noncombu	stible.			
FIRE & EXPLOSION HAZARDS	: Toxic and irritating dust, f	umes or smoke ma	ay be emitted.		
SPECIAL PROTECTIVE EQUIPME	-				
	: Fireman should wear no positive-pressure self-con		equipment (full bunker gear) and pparatus.		
6. ACCIDENTAL RELEASE MEASUR	ES				
PERSONAL PRECAUTIONS	: Remove ignition sources	and ventilate the a	rea.		
	In case of insufficient ven	tilation, wear suital	ble respiratory equipment.		
	Avoid raising dust and ave	oid contact with sk	in and eyes.		
ENVIROMENTAL PRECATIONS	: Prevent spills from entering	ng sewers, waterco	ourses or low areas.		
METHODS FOR 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. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove clean, or dispose contaminated clothing.				
7. HANDLING AND STORAGE					
HANDLING			ing. Avoid prolonged or repeated ate protective equipments.		
STORAGE	: Store away from sunlight	in well-ventilated d	dry place at room temperature.		
	Keep container tightly close	sed.			
INCOMOPATIBLE PRODUCTS	: Strong oxidizers and stron	ng acids			
8. EXPOSURE CONTROL/PERSONAL PROTECTION					
ENGINEERING MEASURES	: Use exhaust ventilation to	keep airborne cor	ncentrations below exposure limits.		
	Use adequate ventilation.				
VENTILATION	: Local Exhaust ; Necessar	y, Mechanical(Gen	neral); Recommended		
PERSONAL PROTECTION					
RESPRATORY PROTECTION	: Safety mask				
HAND PROTECTION	: Safety gloves				
EYE PROTECTION	: Safety glasses(goggles)				
SKIN PROTECTION	: Protective clothing				
CONTROL PARAMETERS					

CHEMICAL NAME	ACGIH TLV	OSHA PEL	NIOSH REL	
Silica gel	respirable dust 10mg/m <sup>3</sup>	80 mg/m <sup>3</sup> /%SiO(2)+2 (as amorphous silica)	TWA=6mg/m <sup>3</sup> (as amorphous silica)	
Dichlorophosphorous tetraphenylporphyrin chloride	Not established			
Calcium chloride				

# 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	:	Green and Clear
SHAPE	:	Solid (pellet)
ODOR	:	Odorless
рН	:	No data available
BOILING POINT	:	2230 degrees C
MELTING POINT	:	1610 degrees C
FLASH POINT	:	Non combustible
FLAMMABILITY	:	No data available
AUTOIGNITION TEMPERATURE	:	No data available
VAPOR PRESSURE	:	No data available
SPACIFIC GRAVITY (DENSITY)	:	2.2
SOLUBILITY IN		
Water	:	Insoluble
Organic solvent	:	Insoluble
Strong base	:	Soluble

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PARTITION COEFFICIENT ; n-octa			
	: Not available		
DECOMPOSITION TEMPERATUR			
	: Not available		
10. STABILITY AND REACTIVITY			
REACTIVITY	: It is easy to absorb moi		
CHEMICAL STABILITY	: Stable under recommen	-	
CONDITION TO AVOID	: Sunlight, heat, moisture		cids
INCOMPATIBILE MATERIALS	: Strong oxidizers and st	rong acids, HF.	
HAZARDOUS DECOMPOSITION F			
	: Chlorine gas		
11. TOXICOLOGICAL INFORMATION	N		
We evaluate as "Classification not except for silica gel.	possible" due to this produ	uct includes 2 subs	tances less than 0.1% concentration
We only show toxicological informa	tion regarding "Silica gel" b	below.	
ACUTE TOXICITY -oral-	: rat: LD50=5000mg/kg(I	UCLID.2000)	
SKIN CORROSION/IRRITATION	: rabbit: not irritating(IUC	•	
EYE DAMAGE/EYE IRRITATION	: human: slightly irritating		
RESPIRATORY OR SKIN SENSITI	• •	5(,,	
	: No data available		
GERM CELL MUTAGENICITY	: mouse: in vivo, negativ	e(JJFC.2003)	
CARCINOGENICITY	: Group 3(IARC)	- ( , ,	
REPRODUCTIVE TOXICITY	: No data available		
SPECIFIC TARGET ORGAN TOXIC			
	: No data available		
ASPIRATION TOXICITY	: No data available		
12. ECOLOGICAL INFORMATION			
ECOTOXICITY	: No data available		
BIODEGRADABILITY	: No data available		
<b>BIOACCUMULATION POTENTIAL</b>	: No data available		
MOBILITY IN SOIL	: No data available		
OTHER ADVERSE EFFECTS	: Not listed in Montreal P	Protocol list.	
13. DISPOSAL INFORMATION			
Dispose in a hazardous-waste site			s. Any disposal practice must be in country, local or state environment
14. TRANSPORT INFORMATION			
ΙΑΤΑ	: Not dangerous goods		
ADR/RID	: Not dangerous goods		
DOT(Department of Transportation	• •		
MARINE POLLUTANT	: Not classified		
15. REGULATORY INFORMATION			
US REGULATIONS	: Labeling according to E	C Directives; See	section 2
EU REGURATIONS	: Labeling according to E		
16. OTHER INFORMATION			
NOTICE			

NOTICE:

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

#### Attention:

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.