# SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : 2 % Potassium hydroxide Silicagel

NAME OF MANUFACTURER : GL Sciences Inc.

ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan

CHARGE SECTION : International Sales Section

TELEPHONE No. : +81-3-5323-6620 FACSIMILE No. : +81-3-5323-6621 PRODUCT No. : 1050-24005 SDS No. : 1050-24005

Research use only.

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Skin corrosion/irritation : Category 2

Eve damage/irritation : Category 2

Specific target organ toxicity (Single exposure)

: Category 2 (respiratory tract system)

HAZARD SYMBOL





SIGNAL WORD : Warning

HAZARD STATEMENTS

H315 Cause skin irritation

H319 Cause serious eye irritation
H371 May cause damage to organs

PRECAUTIONARY STATEMENTS:

P260 Do not breathing dust.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P270 Do not eat, drink or smoke when using this product.

P302+P352 IF ON SKIN: Wash with plenty of water.
P332+P313 If skin irritation occurs: Get medical attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical attention.

P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with all applicable regulations.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY	CONTENT	CHEMICAL FORMULA	CAS No.	TSCA INVENTRY	EINECS No.	EC INDEX No.
Silicagel	98 %	SiO <sub>2</sub>	7631-86-9	Listed	231-545-4	Not established
Potassium hydroxide	2 %	KOH	1310-58-3	Listed	215-181-3	019-002-00-8

4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable

dust, use self-contained breathing apparatus and dust impervious protective

suit. Use personal protective equipment.

INHALATION : Move victim to fresh air. If breathing is difficult, give oxygen. If irritation

persists, consult a physician.

SKIN CONTACT : 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.

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SDS No.1050-24005 Revised date December 4, 2015 : Remove any contact lenses at once. Flush eyes well with flooding large **EYE CONTACT** 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. Never rub your eyes. **INGESTION** Rinse mouth, give plenty of water to dilute the substance. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician. 5. FIRE FIGHTING MEASURES **EXTINGUISHING MEDIA** : Powder, foam (alcohol foam), carbon dioxide, water spray. DISABLED EXTINGUISHING MEDIA Straight stream. FIRE & EXPLOSION HAZARDS : Toxic, irritating, fumes or smoke may be emitted. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS Firemen should wear normal protective equipment(full bunker gear) and positive-pressure self-contained breathing apparatus. 6. ACCIDENTAL RELEASE MEASURES PERSONAL PRECAUTIONS : Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising dust and avoid contact with skin and eyes. **ENVIROMENTAL PRECATIONS** : Prevent spills from entering sewers, watercourses or low areas. METHODS FOR CLEAN 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** : Keep away from ignition sources and ventilate the area - No smoking. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with suitable protection. After using this product, dispose of contents/container in accordance with all applicable regulations and appropriate ways. **STORAGE** Store away from sunlight, heat and all ignition sources in well-ventilated dry place. Keep container tightly closed. INCOMOPATIBLE PRODUCTS : Strong oxidizers, acids 8. EXPOSURE CONTROL/PERSONAL PROTECTION **ENGINEERING MEASURES** : Use exhaust ventilation to keep airborne concentrations below exposure limits. Use only with adequate ventilation. **VENTILATION** : Local Exhaust; Necessary, Mechanical(General); Recommended PERSONAL PROTECTION Safety mask(Use respirators approved under appropriate government RESPIRATORY PROTECTION standards and follow all regulations.) HAND PROTECTION : Protective gloves **EYE PROTECTION** Safety glasses(goggles) SKIN PROTECTION Protective clothing **CONTROL PARAMETERS** 

	ACGIH TLVs	OSHA PEL	NIOSH REL
Silicagel	3 mg/m³ as resp.	Not established	
Potassium hydroxide	2 mg/m³	Not established	2 mg/m³

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : White

SHAPE Solid (powder) **ODOR** No data available Strong base (in water) pΗ **BOILING POINT** No data available **MELTING POINT** No data available FLASH POINT No data available **EXPLOSIVE LIMITS** No data available VAPOR PRESSURE No data available VAPOR DENSITY No data available SPECIFIC GRAVITY No data available SOLUBILITY IN : Insoluble

PARTITION COEFFICIENT; n-octanol/water

: No data available

AUTOIGNITION TEMPERATURE : No data available

10. STABILITY AND REACTIVITY

REACTIVITY : Stable under recommended storage conditions.

CHEMICAL STABILITY : Hydroscopicity. Potassium hydroxide is easy to absorb moisture.

CONDITION TO AVOID : Sunlight, heat, open flames, high temperature, moisture, carbon dioxide,

contact with incompatible materials.

INCOMPATIBILE MATERIALS : Acidic materials, oxidants, reductants

HAZARDOUS DECOMPOSITION PRODUCTS

: No data available

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY -oral: rat: LD50=9,466 mg/kg(calculated)

SKIN CORROSION/IRRITATION : (KOH) Corrosion in rabbit and Human (SIDS, 2001).

EYE DAMAGE/EYE IRRITATION : (KOH) Non-invertible injury to Human and corrosion in rabbit (SIDS,2001).

SENSITIZATION : No data available

GERM CELL MUTAGENICITY : (KOH) Negative (SIDS,2001)

CARCINOGENICITY : No data available
REPRODUCTIVE TOXICITY : No data available
SPECIFIC TARGET ORGAN TOXICITY - single exposure -

(KOH) If inhalation, nose irritation and burn injury in bronchi (SIDS(2001), AC

GIH(2001), PATTY(5th,2001)).

ASPIRATION TOXICITY : (KOH) If inhaled, result in death by pneumonia (ACGIH,2001)

12. ECOLOGICAL INFORMATION

ECOTOXICITY : No data available BIODEGRADABILITY : No data available BIOACCUMULATION POTENTIAL : No data available MOBILITY IN SOIL : No data available

OTHER ADVERSE EFFECTS : Not listed in Montreal Protocol list.

13. DISPOSAL INFORMATION

Dispose in a hazardous-waste site in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environment agency for specific rules).

14. TRANSPORT INFORMATION

IATA

UN NUMBER : 3262

UN PROPER SHIPPING NAME : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S

(Potassium hydroxide Silicagel)

CLASS : Class 8, corrosive solid

PACKING GROUP : III

ADR/RID : 3262, Corrosive Solids DOT : 3262, Corrosive Solids

MARINE POLLUTANT : Not classified

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### 15. REGULATORY INFORMATION

US REGULATIONS : Labeling according to EC Directives; See section 2 EU REGURATIONS : Labeling according to EC Directives; See section 2

## 16. OTHER INFORMATION

### 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.