

SAFETY DATA SHEET

1. Chemical and company identification

Name of chemical (Product name)	KS-64	
MANUFACTURER		
COMPANY NAME	Shin-Etsu Chemical Co., Ltd.	
CONTACT	Quality Assurance Department (Gunma Complex)	
ADDRESS	13-1, Isobe 2-chome, Annaka-shi, Gunma 379-0195, JAPAN	
TELEPHONE NUMBER	027-385-2172	
FAX NUMBER	027-385-2753	
SUPPLIER		
COMPANY NAME	Shin-Etsu Chemical Co., Ltd.	
CONTACT	Planning & Administration Department Silicone Division	
ADDRESS	6-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo 100-0004, JAPAN	
TELEPHONE NUMBER	03-3246-5121	
FAX NUMBER	03-3246-5381	
EMERGENCY	027-385-2172(Holiday/Nighttime:027-385-2111)	
Recommended use of the chemical and restrictions on use		

ended use of the chemical and restrictions on use

Greases and fluid compounds
Electrically insulative seals
Industrial use only.

2. Hazards identification

Restrictions on use

GHS classification

Intended use

The product is not classified according to GHS.

3. Composition/information on ingredients

Substance or mixture

Mixture (Silicone mixture)

	Gazette notification			
Components	CAS Number	ENCS no.	ISHL no.	Concentration (%)
Crystalline free silica	Proprietary	Proprietary	Proprietary	10 - 15

All components are listed on ENCS under CSCL.

4. First aid measures

Notes to physician	Treat symptomatically.
If swallowed	Rinse mouth. Get medical attention immediately.
If in eyes	Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
lf on skin	Wash skin with soap and water. Get medical attention if irritation develops and persists.
If inhaled	Not applicable.

5. Fire-fighting measures

Extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Extinguishing media to avoid	None known.
Specific hazards	By heating and fire, harmful vapors/gases may be formed.
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Protection of fire-fighters	Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency measures	Wear appropriate personal protective equipment.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods or materials for containment and cleaning up	Eliminate sources of ignition. Collect spillage. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills in original containers for re-use.

7. Handling and storage

U U	
Handling	
Technical measures (e.g. Local and general ventilation)	Provide adequate ventilation.
Safe handling advice	Use care in handling/storage.
Contact avoidance measures	Refer to section 10: stability and reactivity.
Hygiene measures	Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.
Storage	
Safe storage conditions	Keep container tightly closed. Store in a cool, dry place out of direct sunlight.

Safe packaging materials Keep in original container.

8. Exposure controls/personal protection

Occupational exposure limits

Japan OELs - JSOH Components	Туре	Value	Form
Crystalline free silica	TWA	8 mg/m3	Total dust.
-		2 mg/m3	Respirable dust.
ACGIH			
Components	Туре	Value	Form
Crystalline free silica	TWA	3 mg/m3	Respirable dust
		10 mg/m3	Inhalable dust
ineering measures	Provide eyewash station.		

Personal protective equipment
Respiratory protection
Hand protectionNo personal respiratory protective equipment normally required.
Wear protective gloves.Eye protection
Skin and body protectionWear safety glasses with side shields (or goggles).
No special protective equipment required.

9. Physical and chemical properties

Grease
White.
Odorless
Not measurable (Refer to water solubility)
No data
Not applicable
> 212 °F (> 100 °C) Closed Cup
Not available.
No data
No data
Negligible (25 °C)

Vapor density	Not applicable
Evaporation rate	Negligible (Butyl Acetate=1)
Specific gravity	1.05(25 °C)
Solubility (Water)	Not soluble
Partition coefficient (n-octanol/water)	Not applicable
Decomposition temperature	Not available.
Viscosity	Not applicable
Molecular weight	Not applicable

10. Stability and reactivity

Reactivity	No hazardous reaction known under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	None specific.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

11. Toxicological information

Acute toxicity	None known.
Other information	The following raw material are not classified according to the classification criteria of GHS, although they are subject to labeling requirement under ISHL. However, no classification does not exclude the possibility of adverse effect via chronic inhalation exposure. Silica.

12. Ecological information

Ecotoxicity

None known.

13. Disposal considerations

```
Local disposal regulations Incinerate. Incinerator should be appropriately equipped for silica and other fine powder which the product will generate in incineration. Workers should wear appropriate personal protective equipment(s) such as respirator. Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Dispose of contents/container in accordance with local/regional/national/international regulations.
```

14. Transport information

International regulations

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to
Annex II of MARPOL 73/78 andThis product is not intended to be transported in bulk.

the IBC Code National regulations

Follow regulation in section 15 for domestic transportation.

15. Regulatory information

Industrial Safety and Health Act

Specified substances regulation

Class 1 designated chemical substances

Not applicable

Class 2 designated chemical substances

Not applicable Class 3 designated chemical substances

Not applicable

Organic solvent regulation Class 1 organic solvents Not applicable Class 2 organic solvents Not applicable Class 3 organic solvents Not applicable	S
Notifiable substances SILICA Labeling substances SILICA	10 - 15 %
Poisonous and Deleterious Subs Specified poisonous substa Not regulated. Poisonous substances Not regulated. Deleterious substances Not regulated.	
Act on the Evaluation of Chemic Class I specified chemical s Not regulated. Class II specified chemical s Not regulated. Monitoring chemical substa Not regulated. Priority Assessment Chemic Not regulated.	nces
Not applicable Class 1 substances (substan Not applicable	se and Transfer Register s (substance name, ordinance number and content) nce name, ordinance number and content) nce name, ordinance number and content)
Fire Service Act	Designated combustible material (Synthetic resins, others)
Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule	Not regulated.
Air Law, Enforcement Rule	Not regulated.
Explosives Control Act	Not applicable.
High Pressure Gas Safety Act	Not applicable.
Act on Prevention of Marine Pollution and Maritime Disaster	Not applicable.
16. Other information	
Bibliography	HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits JIS Z 7252:2014 Classification of chemicals based on "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)" JIS Z 7253:2012 Hazard communication of chemicals based on GHS – Labelling and Safety Data Sheet (SDS) Japan Chemical Industry Association (JCIA) GHS Guideline, June 2012

This safety data sheet was prepared in accordance with JIS Z 7253:2012.

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

This product has been designed, manufactured and developed solely for general industrial use only. This product is not designed for, intended for use as, or suitable for, medical, surgical or other particular purposes. Users have the sole responsibility and obligation to determine the suitability of this product for any application, to make preliminary tests, and to confirm the safety of this product for their use. Users must never use this product for the purpose of implantation into the human body and/or injection into humans.

Version number	03
Revision date	08-29-2016