SAFETY DATA SHEET



1. Identification

Product identifier

KE-1604

Other means of identification

Not available.

Recommended use

Industrial use only

Recommended restrictions

Industrial use only.

Manufacturer/Importer/Supplier/Distributor information

Name

Shin-Etsu Silicones of America, Inc.

Address

1150 Damar Drive, Akron, OH 44305 USA

Contact

Regulation compliance group

Telephone Number

+1-330-630-9860

Fax Number

+1-330-630-9855

Emergency Phone Number

Chemtrec: +1-800-424-9300 (Within US) Chemtrec: +1-703-527-3887 (Outside US)

2. Hazard(s) identification

Physical hazards

Not classified,

Health hazards

Not classified. Not classified.

Environmental hazards

Not classified.

OSHA defined hazards

*Hazards not stated here are "Not classified", "Not applicable" or "Classification not possible".

Label elements

Hazard symbol

None.

Signal word

None.

Hazard statement

Not available.

Precautionary statement

Prevention

Not available.

Response

Not available.

Storage

Not available. Not available.

Disposal

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

HMIS® ratings

Health: 0

Flammability: 0

Physical hazard: 0

3. Composition/information on ingredients

Mixtures

Chemical name

Common name and synonyms

CAS number

/4

Quartz

14808-60-7

30 - < 40

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Wash skin with soap and water.

Eye contact

Rinse immediately with plenty of water for at least 15 minutes.

Ingestion

Rinse mouth. Get medical attention immediately.

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Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting m	ieasures
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Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Not available.

Specific hazards arising from

By heating and fire, harmful vapors/gases may be formed.

Special protective equipment

Firefighters must use standard protective equipment including flame retardant coat, helmet,

and precautions for firefighters

gioves, rubber boots, and self-contained breathing apparatus.

Fire-fighting equipment/instructions Move containers from fire area if you can do so without risk.

General fire hazards

the chemical

No unusual fire or explosion hazards noted.

Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Eliminate sources of ignition.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading.

Small Spills: 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. Collect for salvage or disposal.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor, Provide adequate ventilation. When curing provide adequate ventilation. When curing do not breathe vapor.

Conditions for safe storage. including any incompatibilities

Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep in original container.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
		0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Values			• .
Components	Туре	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Occupational Exposure Limits are not relevant to the current physical form of the product.

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Appropriate engineering

controls

Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses according to EN 166.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

No special protective equipment required.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. If ventilation is insufficient when heating use chemical respirator with organic vapor cartridge. If ventilation is insufficient when

curing use chemical respirator with organic vapor cartridge.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. This product can generate formaldehyde at approximately 150 °C (300 °F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles, organic vapor respirator or protective clothing when this product is heated at approximately 150 °C (300 °F) and above in the presence of air.

9. Physical and chemical properties

Appearance

Form

Liquid, Paste.

Color

Gravish black

Odor

Odorless

Odor threshold

Not available.

Нq

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling

Not available.

range

Flash point

> 482 °F (> 250 °C) Open Cup

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

Not available.

Vapor density

Not available.

1.26

Relative density

Solubility(ies)
Solubility (water)

Not soluble

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Viscosity

Not available.

Other information

Density

10.51 lb/gal

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

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The product is stable and non-reactive 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 known.

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

Information on likely routes of exposure

Ingestion

Expected to be a low ingestion hazard.

Inhalation

No adverse effects due to inhalation are expected.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Not available.

Product

Species

Test Results

KE-1604 (CAS Mixture)

Acute

Oral

LD50

Rat

5017,7503 mg/kg estimated

Skin corrosion/irritation

Serious eye damageleye irritation Respiratory or skin sensitization

Respiratory sensitization

Not available.

Not available.

Skin sensitization

Not available.

Germ cell mutagenicity

Not available.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Quartz (CAS 14808-60-7)

1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Quartz (CA\$ 14808-60-7)

Known To Be Human Carcinogen.

Reproductive toxicity

Not available.

Specific target organ toxicity single exposure

Not available.

Not available.

Specific target organ toxicity -

repeated exposure Aspiration hazard

Not available.

Further information

This product can generate formaldehyde at approximately 150 degrees C(300'F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles, organic vapor respirator, or protective clothing, when this product is heated at approximately 150 degrees. C(300°F) and above in the presence of air.

12. Ecological information

Ecotoxicity

No ecotoxicity data noted for the ingredient(s).

Persistence and degradability Bioaccumulative potential

Not available.

Material name: KE-1604

Not available.

SOSUS 4/6 Mobility in soil

Not available.

Other adverse effects

Not available.

13. Disposal considerations

Disposal instructions

Follow applicable Federal, State and Local regulations.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods,

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

This product is not intended to be transported in bulk,

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations

All components are on the U.S. EPA TSCA Inventory List.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 313 (TRI reporting)

US state regulations

US. Massachusetts RTK - Substance List

Quartz (CAS 14808-60-7)

US. New Jersey Worker and Community Right-to-Know Act

Quartz (CAS 14808-60-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Quartz (CAS 14808-60-7)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Quartz (CAS 14808-60-7)

Listed: October 1, 1988

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

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Country(s) or region

inventory name

On Inventory (yes/no)*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date

04-24-2015

Version#

01

NFPA ratings

Health: 0 Flammability: 0 Instability: 0

NFPA ratings



Disclaimer

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

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.

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