



# ES 2044 H

## SAFETY DATA SHEET

Issued May-2015

Revised Dec-2016

Edition 16.3

1.

### IDENTIFICATION

<b>Product name:</b>	ES 2044H
<b>Product type:</b>	Silicone Rubber
<b>Manufacturer:</b>	CSI Chemical Co., Ltd. No 168, Linjiang Avenue, Riverside New District, Haimen, Jiangsu Province, China
<b>Emergency telephone:</b>	886-2-8228-7777 (GMT+8) Languages: Chinese and English
<b>Email:</b>	service@csichemical.com

2.

### HAZARDS IDENTIFICATION

<b>GHS classification:</b>	Acute toxicity, oral: Category 5 Specific target organ toxicity - single exposure: Category 3 Chronic aquatic toxicity: Category 4
----------------------------	---

**GHS label elements:****Pictogram:****Signal word:** Warning**Hazard statements:**

H303	May be harmful if swallowed.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H413	May cause long lasting harmful effects to aquatic life.

**Precautionary statements: Prevention:**



---

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
<b>Response:</b>	
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Storage:</b>	
P403+233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.
<b>Disposal:</b>	
P501	Dispose of contents/container to an approved waste disposal plant.

---

3.

**COMPOSITION / INFORMATION ON INGREDIENTS**

<u>CHEMICAL COMPONENTS</u>	<u>CAS Number</u>	<u>WT%</u>
Poly(dimethylsiloxane), hydroxy terminated	70131-67-8	>25
Silicon dioxide	7631-86-9	>35
Aluminum hydroxide	21645-51-2	<20
Calcium carbonate	471-34-1	<20
Total		100%

4.

**FIRST AID MEASURES**

<b>Eyes:</b>	Immediately flush eyes with running water for at least 15 minutes. Get medical attention.
<b>Skin:</b>	Immediately wash skin with soap and running water. Get medical attention, depending on the symptoms.
<b>Ingestion:</b>	Do not induce vomiting, rinse your mouth and get medical attention.
<b>Inhalation:</b>	Rest in fresh air. Get medical attention, depending on the symptoms.



5.

**FIRE-FIGHTING MEASURES****FLAMMABLE PROPERTIES**

**Firefighting procedures:** Remove sources of combustibles. Extinguish the fire using fire-fighting extinguishing media listed below. Cool surrounding area (e.g., tanks, buildings) by spraying water to prevent fire extension.

**Extinguished media:** Carbon dioxide, powder or foam.

**Fire & explosion hazards:** Dense smoke emitted when burned without sufficient oxygen.

**Firefighting equipment:** Wear positive pressure self-contained breathing apparatus in any closed space.

6.

**ACCIDENTAL RELEASE MEASURES**

Remove sources of ignition, wear proper protective equipment when in work. Keep people away from dangerous area, and evacuate people on the leeward. Wipe up or scrape up with proper materials, such as cloth, sand, or other absorbents. Dispose of saturated absorbent or cleaning materials properly. Thoroughly clean the area with solvents or detergents to avoid slip hazard. Avoid release to the environment.

7.

**HANDLING AND STORAGE**

**Handling:** Remove sources of ignition. This material releases alcoholic gas during curing. Use with adequate ventilation. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid breathing dust/fume/gas/mist/vapors/spray. Keep away from water and moisture.

**Storage:** Store within a room temperature environment in a cool dry place. Keep container closed. Keep away from oxidizing materials, moisture, and water. Store locked up.

8.

**EXPOSE CONTROLS / PERSONAL PROTECTION**

**Eye protection:** Wear protective goggles.

**Skin protection:** Wear chemical resistant gloves and work clothes.



**Respiratory protection:** Respiratory protection is not required. Adequate ventilation must be maintained in the work place at all times.

**Exposure guidelines or limits:** Not established.

9.

### PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Paste
<b>Color:</b>	White
<b>Odor:</b>	Alcoholic
<b>Boiling point:</b>	No data available
<b>Specific gravity:</b>	1.40±0.05 (23 °C)
<b>Solubility description:</b>	Insoluble in water
<b>Flash point:</b>	Not applicable
<b>Auto-ignition temperature:</b>	Not applicable

10.

### STABILITY AND REACTIVITY

<b>Stability:</b>	Normally stable. It cures with moisture in the air, and releases alcoholic gas during curing.
<b>Conditions to avoid:</b>	High humidity and high temperature.
<b>Materials to avoid:</b>	Oxidizing materials can cause a reaction. Keep away from oxidizing materials.

11.

### TOXICOLOGICAL INFORMATION

**Acute toxicity:**

<b>Silicon dioxide</b>	LD50 (oral, rat): 3160 mg/kg
<b>Aluminum hydroxide</b>	LD50 (oral, female rat): >2000 mg/kg
<b>Calcium carbonate</b>	LD50 (oral, rat): 6450 mg/kg

**Irritant properties:** May cause respiratory irritation.

12.

**ECOLOGICAL INFORMATION**

**Ecotoxicity:**

<b>Acute aquatic toxicity:</b>	This product has no known ecotoxicological effects.
<b>Chronic aquatic toxicity:</b>	May cause long lasting harmful effects to aquatic life. Avoid release to the environment.

**Ingredients:**

**Silicon dioxide**

<b>Toxicity to fish:</b>	LC50 <i>Oncorhynchus mykiss</i> (rainbow trout): >10,000mg/l - 96 h Method: OECD Test Guideline 203
<b>Toxicity to daphnia and other aquatic invertebrates:</b>	EC50 <i>Daphnia</i> : >1000 mg/l - 24 h Method: OECD Test Guideline 202

**Aluminum hydroxide**

<b>Toxicity to fish:</b>	LC50 <i>Salmo trutta</i> : >100mg/l - 96 h Method: OECD Test Guideline 203
<b>Toxicity to daphnia and other aquatic invertebrates:</b>	EC50 <i>Daphnia magna</i> (Water flea): >100mg/l - 48 h Method: OECD Test Guideline 202
<b>Toxicity to algae:</b>	EC50 <i>Selenastrum capricornutum</i> : >100mg/l - 72 h Method: OECD Test Guideline 201

**Calcium carbonate**

<b>Toxicity to fish:</b>	LC50 <i>Oncorhynchus mykiss</i> (rainbow trout): >100mg/l - 96 h Method: OECD Test Guideline 203
<b>Toxicity to daphnia and other aquatic invertebrates:</b>	EC50 <i>Daphnia</i> : >100 mg/l - 48 h Method: OECD Test Guideline 202
<b>Toxicity to algae:</b>	EC50 <i>Pseudokirchneriella subcapitata</i> : > 14 mg/l - 72 h Method: OECD Test Guideline 201



13.

### DISPOSAL CONSIDERATIONS

**Waste disposal method:** Dispose of contents/container to an approved waste disposal plant. Waste must be disposed of in accordance with local environmental control regulations.

---

14.

### TRANSPORT INFORMATION

**International Air Transport Association (IATA), International Civil Aviation Organization (ICAO) information:**

Not regulated as dangerous goods.

**International Maritime Dangerous Goods (IMDG) Code:**

Not regulated as dangerous goods.

**The International Carriage of Dangerous Goods by Road (ADR):**

Not regulated as dangerous goods.

**The International Carriage of Dangerous Goods by Inland Waterways (ADN):**

Not regulated as dangerous goods.

**The International Railway Transport of Dangerous Goods (RID):**

Not regulated as dangerous goods.

**Further information:**

Keep container closed. Avoid rough handling or dropping. Keep out of direct sunlight. Keep away from moisture.

---

15.

### REGULATORY INFORMATION

In accordance with local environmental control regulations

---



16.

### OTHER INFORMATION

The information contained in this safety data sheet have been created to the best of our knowledge and belief and based on the knowledge available at the time of creation. The given information constitutes any warranty or quality specification. Combinations of materials with other materials and the different reactions cannot be excluded and will not be covered by the information of this safety data sheet. The review to comply with a reasonable security, as well as the use of the material is the responsibility of the user.

---