

Silicone Rubber Additive
HC-25B

Last Revision Date: 2023/04/25
Version: 2.2

1. Identification of the substance/mixture and of the company

- 1.1 Product Name** : Silicone Rubber Additive
HC-25B
- 1.2 Chemical Classification** : Silicone compound
- 1.3 Recommended Product Usage and Limited Use** : Silicone rubber fabrications
- 1.4 Company Details**
- Manufacturer / Supplier** : HRS Co.,Ltd.
- Address** : 7, Chupalsandan 2-gil, Paengseong-eup, Pyeongtaek-si, Gyeonggi-do, Korea
- Telephone Number** : +82 31 6558822
- Telefax** : +82 31 6915901

2. Hazard Identification

- 2.1 GHS Classification**
- Not applicable for GHS classification.

- 2.2 GHS Label Elements**
- No labeling according to GHS required.

Symbol

Not applicable

Signal Word

Not applicable

Hazard Risk Statement

Not applicable

Precautionary Statement

Prevention

P262: Do not get in eyes, on skin, or on clothing.
P264: Wash the contact area thoroughly after handling.

Response

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

Storage

Not applicable

Disposal

Not applicable

- 2.3 Other Hazard**

None known

3. Composition / Information on Ingredients

3.1 Substance/Mixture : Mixture

3.2 Components

Chemical Name	Common Name or Synonym	CAS No.	% (w/w)
Siloxanes and Silicones, di-Me, Me hydrogen	-	68037-59-2	80-90
Cyclotetrasiloxane, octamethyl-, reaction products with silica	-	68583-49-3	10-20

4. First Aid Measures

4.1 First Aid Measures

General : In the case of accident, get medical attention immediately.

Eyes : Immediately flush eyes with water.
Get medical attention if irritation develops and persists.

Skin : Immediately flush skin with water.
Remove contaminated clothing and shoes.
Wash clothing before reuse.
Clean shoes before reuse.

Inhalation : Remove to fresh air.
Get medical attention.

Oral : DO NOT induce vomiting.
Get medical attention.
Rinse your mouth with water.

4.2 Important Symptoms and Hazard Effects : No significant adverse effects from normal use.

4.3 Personal Protection for First Aid or Rescue Personnel : No respiratory protection should be needed. Use proper protection – safety glasses as a minimum. Washing at mealtime and end of shift is adequate.

4.4 Note to physicians : Treat symptomatically and supportively.

5. Fire-Fighting Measures

5.1 Suitable Extinguishing Media : On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide(CO₂), dry chemical or water spray. Water can be used to cool fire exposed containers.

5.2 Unsuitable Extinguishing Media : None established.

5.3 Specific Hazards : Hazardous decomposition products: carbon dioxide , carbon monoxide , formaldehyde , silicon dioxide and incompletely burnt hydrocarbons.

5.4 Special Fire Fighting Procedures : Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Remove undamaged containers from fire area if it is safe to do so.

5.5 Special protective equipment for the Fire Fighters : Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.

6. Accidental Release Measures

- 6.1 Personal Precautions** : Use personal protective equipment.
Follow safe handling advise and personal protective equipment recommendations.
- 6.2 Environmental Precautions** : Do not allow large quantities to enter drains or surface waters.
Prevent further leakage or spillage if safe to do so.
If large amounts have been spilled, inform the relevant authorities.
- 6.3 Methods for Cleaning up** : Observe all personal protective equipment recommendations described in this SDS.
Collect and contain for salvage or disposal.
For large spills, appropriate containment to keep material from spreading. Store recovered material in appropriate container.
Laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which laws and regulations are applicable.

7. Handling and Storage

- 7.1 Handling Precautions** : Use with adequate ventilation. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
Take care to prevent spills, waste and minimize release to the environment.
- 7.2 Storage Conditions** : Use reasonable care and store away from oxidizing materials.
Do not apply direct heat.
Store in accordance with the particular national regulations.
- 7.3 Unsuitable Packaging Materials** : Strong oxidizing agents.

8. Exposure Controls / Personal Protection

8.1 Control Parameters

Components	CAS No.	Exposure Limits / Basis
-	-	-

8.2 Engineering Controls

- Local Ventilation** : None should be needed.
- General Ventilation** : Recommended.
Minimize workplace exposure concentrations.

8.3 Personal Protective Equipment

- Respiratory protection** : No personal respiratory protective equipment normally required.
- Eye protection** : Recommendation - Protective goggles.
- Hand protection** : Wear appropriate glove.
- Skin protection** : Washing at mealtime and end of shift is adequate.
- Hygiene Measures** : Observe standard industrial hygiene practices for the handling of chemical substances.
Do not eat or drink when handling.

9. Physical and Chemical Properties

Physical State

Form	: Paste
Color	: Off White
Odour	: Odorless
pH	: Not available
Melting Point/Freezing Point	: Not available
Boiling Point/Range	: Not available
Flash Point	: > 100 degree C (Seta Closed Cup)
Characteristics of Explosives	: Not available
Vapor Pressure @25 degree C	: Not available
Vapor Density(air=1)	: Not available
Specific Gravity	: 1.13
Solubility	: Not available
Octanol/Water Partition	: Not available
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Odor Threshold	: Not available
Evaporation Rate	: Not available
Flammability(Solid, Gas)	: Not available
Viscosity(mPa.s)	: Not available

The above information is not intended for use in preparing product specifications.

10. Stability and Reactivity

10.1 Stability	: Stable.
10.2 Possibility of Hazardous Reaction	: If stored and handled in accordance with standard industrial practices no hazardous reactions are known.
10.3 Conditions to Avoid	: None known
10.4 Incompatible materials	: None known
10.5 Hazardous decomposition products	: If stored and handled properly- None known Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C(302°F) through oxidation.

11. Toxicological information

11.1 Routes of Exposure	: Skin contact and accidental ingestion.
11.2 Acute Toxicity	
Eyes	: No significant irritation expected from a single exposure.
Ingestion(Oral)	: Low ingestion hazard in normal use.
Inhalation	: No significant effects expected from a single short-term exposure.
Skin(Dermal)	: No significant irritation expected from a single short-term exposure.
11.3 Chronic Toxicity	

Ingestion(Oral)	: Repeated ingestion or swallowing large amounts may injure internally
Inhalation	: No known application information
Skin(Dermal)	: No known application information
Other Health Hazard Information	: No known application information
11.4 Skin Corrosion/Irritation	: Not available
11.5 Serious Eye Damage/Irritation	: Not available
11.6 Respiratory Sensitization	: Not available
11.7 Skin Sensitization	: Not available
11.8 Carcinogenicity	
IARC	: Not available
OSHA	: Not available
ACGIH	: Not available
NTP	: Not available
EU CLP	: Not available
11.9 Germ Cell Mutagenicity	: Not available
11.10 Reproductive Toxicity	: Not available
11.11 Specific target organ toxicity (Single Exposure)	: Not available
11.12 Specific target organ toxicity (Repeated Exposure)	: Not available
11.13 Aspiration Hazard	: Not available

12. Ecological Information

12.1 Ecotoxicity	
Fish	: Not available
Daphnia and Invertebrate	: Not available
Algae	: Not available
12.2 Persistence and Degradability Water	
Persistence	: Not available
Degradability	: Not available
12.3 Bioaccumulative Potential Bioaccumulation	
Biocumulation	: Not available
Degradability	: Not available
12.4 Mobility in Soil	: This product is a solid and does not contain significant concentrations of water soluble constituents that may be leached from the product. It is therefore not likely to present a danger to terrestrial organisms.
12.5 Additional Environmental Information	: No Specific information is available.

13. Disposal Considerations

- 13.1 Residual Waste** : This products fall under Industrial Waste based on Wastes Disposal and Public Cleansing Law. Dispose of in accordance with local regulations.
- 13.2 Contaminated Containers of Packaging** : Dispose of in accordance with local regulations.
- 13.3 Disposal precautions** : Dispose of in accordance with local regulations.

14. Transport Information

14.1 Road and Rail Transport

Not Applicable

14.2 Air Transport (IATA)

Not subject to IATA regulations.

14.3 Sea Transport (IMDG)

Not subject to IMDG code.

UN number : Not applicable

Proper shipping name : Not applicable

Class : Not applicable

Subsidiary risk : Not applicable

Packing group : Not applicable

Labels : Not applicable

EmS Code : Not applicable

Marine pollutant : Not applicable

14.4 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

14.5 Special Requirements and Additional Information

None

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National and local regulations must be observed.
For information on labelling please refer to section 2 of this document.

15.1 Regulation under the Occupational Safety and Health Act

Harmful Substances Prohibited : Not Applicable

Harmful Substances Required : Not Applicable

Controlled Hazardous Substances : Not Applicable

Components	CAS No.
-	-

15.2 Regulation under the Chemical control Act

Toxic Chemicals : Not Applicable
 Observational chemicals : Not Applicable
 Restricted Chemicals : Not Applicable
 Prohibited Chemicals : Not Applicable
 Toxic Release Inventory : Not Applicable
 Accident Precaution Chemicals : Not Applicable

15.3 Dangerous Substances Safety Management Act

Not Applicable to Dangerous Materials

15.4 Wastes Control Act

Industrial waste – Follow article 13 of the act to dispose the product waste

15.5 Other International Regulations

Details of international registration status

Listed on or in accordance with the following inventories

REACH - European Union : All Ingredients (pre-)registered or exempt.
KECL - Korea : All Ingredients listed, exempt or notified.
ENCS/ISHL - Japan : All components are listed on ENCS/ISHL or its exempt rule.
AICS - Australia : All Ingredients listed or exempt.
IECSC - China : All Ingredients listed or exempt.
DSL - Canada : Not determined.
PICCS - Philippines : All Ingredients listed or exempt.
NZIoC - New Zealand : All Ingredients listed or exempt.
TCSI - Taiwan : All Ingredients listed or exempt.
TSCA – USA : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

16. Other Information

16.1 Revision

Date of first issue: 2016/09/28
 Version: 2.2

16.1 Information Source

Internal Technical data
 Raw material SDSs
 OECD eChem Portal
 European Chemicals Agency(ECHA), <http://echa.europa.eu/>

16.2 Abbreviations

KR OEL : Occupational Exposure Limits Korea
 KR OEL/TWA : Time Weighted Average

AICS : Australian Inventory of Chemical Substances
DSL : Domestic Substances List(Canada)
EmS : Emergency Schedule
ENCS : Existing and New Chemical Substances(Japan)
GHS : Globally Harmonized System
IARC : International Maritime Dangerous Goods
ISHA : Industrial Safety and Health Act
KECL : Korea Existing Chemicals List
MARPOL : International Convention for the Prevention of Pollution from Ships
NTP : National Toxicology Program
NZIoC : New Zealand Inventory of Chemicals
PICCS : Philippines Inventory of Chemicals and Chemical Substances
REACH : Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
TCSI : Taiwan Chemical Substance Inventory
TSCA : Toxic Substances Control Act(United States)

This information is offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is 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.

<http://www.hrssilicone.com>