# SAFETY DATA SHEET

## 1. Identification

**Product identifier** SES22534-50B

**Other means of identification** None.

**Recommended use** RTV rubber for electrical and electronic industry (coating)

**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.

**Environmental hazards** Not classified.

**OSHA defined hazards** Not classified.

*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** Take off contaminated clothing and wash it before reuse.

**Storage** Not available.

**Disposal** Not available.

**Hazard(s) not otherwise classified (HNOC)** When contacting with water, alcohols, acids, bases, strong oxidizers, catalystic metals or metallic compounds, this product will evolve hydrogen gas and form flammable mixture in air.

**Supplemental information** None.

**HMIS® ratings** Health: 1
Flammability: 1
Physical hazard: 0

## 3. Composition/information on ingredients

**Mixtures**

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| Carbon black | | 1333-86-4 | 0.025 - 0.1 |

## 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. Take off contaminated clothing and wash before reuse.
If skin irritation or rash occurs: Get medical advice/attention.

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

**Ingestion** Rinse mouth. Get medical attention immediately.

| | |
|---|---|
| **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** | Wash contaminated clothing before reuse. |

## 5. Fire-fighting measures

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|---|---|
| **Suitable extinguishing media** | [On large fire use]AFFF(Aqueous films forming foam) alcohol compatible foam is an effective method for extinguishing well-developed fires. Extinguishing agent such as water spray[fog] and carbon dioxide also can be applicable. On small fires, water fog and ABC dry chemical also can be applicable. Water can be used to cool fire exposed containers. |
| **Unsuitable extinguishing media** | Basic dry chemical powder.<br>Do not use a solid water stream as it may scatter and spread fire. |
| **Specific hazards arising from the chemical** | When catch fire, it may burn vigorously.<br>By heating and fire, harmful vapors/gases may be formed. |
| **Special protective equipment and precautions for firefighters** | Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus. |
| **Fire fighting equipment/instructions** | Move containers from fire area if you can do so without risk. |

## 6. Accidental release measures

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|---|---|
| **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.<br><br>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Keep collected material in a container with venting devices.<br><br>Never return spills in original containers for re-use. Spilled material may evolve hydrogen gas if contacted with waters, acids or bases. |
| **Environmental precautions** | Avoid discharge into drains, water courses or onto the ground. |

## 7. Handling and storage

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|---|---|
| **Precautions for safe handling** | Provide adequate ventilation. Do not breathe mist or vapor. Use adequate ventilation when this product is heated at approximately 150 °C (300 °F) and above in the presence of air. Please handle this product carefully. This product may evolve hydrogen gas if contacted with waters, alcohols, moisture, acids, bases, strong oxidizing agents, catalystic metals or metallic compounds. |
| **Conditions for safe storage, including any incompatibilities** | Store in tightly closed container. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Keep in original container.<br>Vent container carefully, as needed to relieve pressure. Use cleaned glass container if this product transfer to glass container. |

## 8. Exposure controls/personal protection

**Occupational exposure limits**

**US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value |
|---|---|---|
| Carbon black (CAS 1333-86-4) | PEL | 3.5 mg/m3 |

**US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000)**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon black (CAS 1333-86-4) | TWA | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| | | 50 mppcf | Total dust. |

**US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000)**

| Components | Type | Value | Form |
|---|---|---|---|
| | | 15 mppcf | Respirable fraction. |

**US. ACGIH Threshold Limit Values (TLV)**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon black (CAS 1333-86-4) | TWA | 3 mg/m3 | Inhalable fraction. |

**NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended**

| Components | Type | Value |
|---|---|---|
| Carbon black (CAS 1333-86-4) | IDLH | 1750 mg/m3 |

**US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)**

| Components | Type | Value |
|---|---|---|
| Carbon black (CAS 1333-86-4) | TWA | 0.1 mg/m3 |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** Provide adequate general and local exhaust ventilation.
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. Chemical impervious gloves

**Other** Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment. If ventilation is insufficient when heating 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**

**Physical state** Liquid.

**Form** Liquid.

**Color** Black

**Odor** Odorless

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Flash point** Not available.

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

**Upper/lower flammability or explosive limits**

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

| | |
|---|---|
| **Vapor pressure** | Not available. |
| **Vapor density** | Not available. |
| **Relative density** | Not available. |
| **Solubility(ies)** | |
| **Solubility (water)** | Not soluble |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Not available. |
| **Other information** | |
| **Specific gravity** | 0.97 |

## 10. Stability and reactivity

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|---|---|
| **Reactivity** | No hazardous reaction known under normal conditions of use, storage and transport.<br>Reacts with water, alcohols, acids, bases, strong oxidizing agents, catalystic metals and metallic compounds to evolve hydrogen gas. |
| **Chemical stability** | Stable at normal conditions. |
| **Possibility of hazardous reactions** | Hazardous polymerization does not occur. Evolved hydrogen gas is flammable and may form explosive mixtures with air. |
| **Conditions to avoid** | None known. |
| **Incompatible materials** | Water, alcohols, acids, bases, strong oxidizing agents, catalystic metals, metallic compounds. |
| **Hazardous decomposition products** | Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product:<br>Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide.<br>Formaldehyde . |

## 11. Toxicological information

**Information on likely routes of exposure**

| | |
|---|---|
| **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. |
| **Ingestion** | Expected to be a low ingestion hazard. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | Direct contact with eyes may cause temporary irritation. |

**Information on toxicological effects**

**Acute toxicity**

| Components | Species | Test Results |
|---|---|---|
| Carbon black (CAS 1333-86-4) | | |
| **Acute** | | |
| **Oral** | | |
| LD50 | Rat | > 8000 mg/kg |

| | |
|---|---|
| **Skin corrosion/irritation** | Not available. |
| **Serious eye damage/eye irritation** | Not available. |
| **Respiratory or skin sensitization** | |
| **Respiratory sensitization** | Not available. |
| **Skin sensitization** | Not available. |
| **Germ cell mutagenicity** | Not available. |
| **Carcinogenicity** | Not classifiable as to carcinogenicity to humans. |

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Carbon black (CAS 1333-86-4) Known To Be Human Carcinogen.

| | |
|---|---|
| **Reproductive toxicity** | Not available. |
| **Specific target organ toxicity - single exposure** | Not available. |
| **Specific target organ toxicity - repeated exposure** | Not available. |
| **Aspiration hazard** | Not available. |
| **Further information** | 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. |

## 12. Ecological information

| | |
|---|---|
| **Ecotoxicity** | No ecotoxicity data noted for the ingredient(s). |
| **Persistence and degradability** | No data available. |
| **Bioaccumulative potential** | No data available. |
| **Mobility in soil** | No data available. |
| **Mobility in general** | No data 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 Annex II of MARPOL 73/78 and the IBC Code** | This product is not intended to be transported in bulk. |

## 15. Regulatory information

| | |
|---|---|
| **US federal regulations** | This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are either on the TSCA Inventory List or exempted from notification requirement under TSCA. The product must be used in compliance with the low volume exemption. |
| **Toxic Substances Control Act (TSCA)** | One or more components of the mixture are not on the TSCA 8(b) inventory or are designated “inactive”. |

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**US state regulations**

**California Proposition 65**

**WARNING:** This product can expose you to Carbon black, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

Carbon black (CAS 1333-86-4) Listed: February 21, 2003

**International Inventories**

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Australia | Australian Inventory of Industrial Chemicals (AICIS) | No |
| Canada | Domestic Substances List (DSL) | No |
| 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) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| Taiwan | Taiwan Chemical Substance Inventory (TCSI) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No |

*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** 02-04-2025

**Version #** 01

**HMIS® ratings** Health: 1
Flammability: 1
Physical hazard: 0

**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 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.