# SAFETY DATA SHEET

## 1 Product and company identification

**Name of chemical (Product name):** SILCOOL™ TIA225GF

| | | |
|---|---|---|
| **Manufacturer/Importer/Distributor Information** | : | Momentive Performance Materials Japan LLC<br>Akasaka Park Building<br>5-2-20 Akasaka, Minato-ku<br>Tokyo Japan |
| **Contact person** | : | commercial.services@momentive.com |
| **Telephone** | : | +81-3-5544-3100 |
| **Telefax** | : | +81-3-5544-3101 |
| **Emergency telephone number** | : | +81-3-5544-3111<br>+81-276-31-4118 (night / weekend) |
| **Responsible Department** | : | Product Stewardship & Compliance Group |

## 2 Hazard(s) identification

**GHS classification:**

| | | |
|---|---|---|
| **Physical Hazards** | Flammable gas | Not applicable |
| | Chemically unstable gases | Not applicable |
| | Aerosols | Not applicable |
| | Oxidizing gases | Not applicable |
| | Explosives | Classification not possible |
| | Gases under pressure | Not applicable |
| | Flammable liquids | Not classified |
| | Flammable solid | Not applicable |
| | Self-reactive substances and mixtures | Classification not possible |
| | Pyrophoric liquids | Classification not possible |
| | Pyrophoric solids | Not applicable |
| | Self-heating substances and mixtures | Classification not possible |
| | Substances and mixtures, which in contact with water, emit flammable gases | Classification not possible |
| | Oxidizing liquids | Classification not possible |
| | Oxidizing solids | Not applicable |
| | Organic peroxides | Classification not possible |
| | Corrosive to metal | Classification not possible |
| **Health Hazards** | Acute toxicity (Dermal) | Not classified |
| | Acute toxicity (Oral) | Not classified |
| | Acute toxicity (Inhalation - gas) | Not applicable |
| | Acute toxicity (Inhalation - vapor) | Not classified |
| | Acute toxicity (Inhalation - dust and mist) | Not classified |
| | Skin Corrosion/Irritation | Classification not possible |
| | Serious Eye Damage/Eye Irritation | Classification not possible |
| | Respiratory sensitizer | Classification not possible |
| | Skin sensitizer | Classification not possible |

| | | |
|---|---|---|
| | Germ Cell Mutagenicity | Classification not possible |
| | Carcinogenicity | Classification not possible |
| | Toxic to reproduction | Classification not possible |
| | Specific Target Organ Toxicity - Single Exposure | Classification not possible |
| | Specific Target Organ Toxicity - Repeated Exposure | Classification not possible |
| | Aspiration Hazard | Classification not possible |
| **Environmental Hazards** | Acute hazards to the aquatic environment | Not classified |
| | Chronic hazards to the aquatic environment | Not classified |
| | Hazardous to the ozone layer | Not classified |

**GHS label elements**

Not applicable

**Other hazards which do not result in GHS classification:** None.

**Main symptoms and emergency overview**

**Main symptoms:** No data available.

**Emergency Overview:** No data available.

## 3 Composition/information on ingredients

**Chemical nature:** Silicone compound

**Mixtures**

| Chemical Identity | CAS number | Concentration* |
|---|---|---|
| Aluminum oxide | 1344-28-1 | 80 - 90% |
| Carbon Black | 1333-86-4 | 0.1 - 1.0% |

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4 First-aid measures

**Inhalation:** If inhaled, move victim to fresh air and seek medical attention.

**Eye contact:** Flush thoroughly with water for at least 15 minutes. Get medical assistance.

**Skin Contact:** Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

**Ingestion:** If swallowed, do NOT induce vomiting. Give a glass of water. Do not give victim anything to drink if he is unconscious. Get medical attention if any discomfort continues.

**Most important symptoms/effects, acute and delayed**

| | |
|---|---|
| **Symptoms:** | No data available. |
| **Hazards:** | No data available. |

## 5 Fire-fighting measures

| | |
|---|---|
| **Extinguishing media:** | Extinguish with foam, carbon dioxide or dry powder. |
| **Unsuitable extinguishing media:** | No data available. |

## 6 Accidental release measures

| | |
|---|---|
| **Personal precautions, protective equipment and emergency procedures:** | Keep unprotected persons away. Remove sources of ignition. Use personal protective equipment. Keep upwind. |
| **Environmental Precautions:** | Do not allow runoff to sewer, waterway or ground. |
| **Methods or materials for containment and cleaning up:** | Put in an empty container for recovery after preventing spill by sand or sandbags,if the amount of spill is large. Put in an empty container for recovery after wiping or soaking up in an inert material,if the amount of spill is small. Wear proper protective equipment as specified in the protective equipment section. |
| **Prevention of secondary hazards:** | Remove sources of ignition. |

## 7 Handling and storage

**Handling**

| | |
|---|---|
| **Technical measures (e.g. Local and general ventilation):** | Provide adequate general and local exhaust ventilation. Eyewash bottle with clean water. |
| **Safe handling advice:** | Wear appropriate personal protective equipment. Keep away from sources of ignition - No smoking. Avoid contact with organic compounds containing nitrogen, sulfur, phosphorus,tin and lead, soldering flux, polyvinyl chloride, polyurethane as it may lead to incomplete curing. |
| **Contact avoidance measures:** | No data available. |
| **Hygiene measures:** | No data available. |

**Storage**

| | |
|---|---|
| **Safe storage conditions:** | Store in a dark, cool place indoors, with container tightly closed. |
| **Safe packaging materials:** | No data available. |

## 8 Exposure controls/personal protection

### Control Parameters

**Occupational Exposure Limits:**

| Chemical name | Type | Exposure Limit Values | Regulation Sources |
|---|---|---|---|
| Aluminum oxide - Respirable dust. | TWA | 0.5 mg/m3 | Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (05 2014) |
| Aluminum oxide - Total dust. | TWA | 2 mg/m3 | Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (05 2014) |
| Carbon Black - Respirable dust. | TWA | 1 mg/m3 | Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (05 2014) |
| Carbon Black - Total dust. | TWA | 4 mg/m3 | Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (05 2014) |
| Carbon Black - Respirable dust. | TWA | 1 mg/m3 | Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (05 2014) |
| Carbon Black - Total dust. | TWA | 4 mg/m3 | Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (05 2014) |

**Personal protective equipment (ppe)**

**Respiratory Protection:** Not applied

**Eye Protection:** Safety glasses with side shields

**Hand Protection:** Rubber or plastics gloves

**Skin and Body Protection:** Chemical resistant clothing Wear rubber boots.

## 9 Physical and chemical properties

**Appearance**

**Physical state:** liquid

**Form:** Paste

**Color:** Dark gray

**Odor:** Negligible

**Odor threshold:** No data available.

**pH:** No data available.

| | |
|---|---|
| **Melting point/freezing point:** | No data available. |
| **Initial boiling point and boiling range:** | No data available. |
| **Flash Point:** | 350 °C |
| **Evaporation rate:** | No data available. |
| **Flammability (solid, gas):** | No data available. |
| **Upper/lower limit on flammability or explosive limits** | |
| **Flammability limit - upper (%):** | No data available. |
| **Flammability limit - lower (%):** | No data available. |
| **Explosive limit - upper (%):** | No data available. |
| **Explosive limit - lower (%):** | No data available. |
| **Vapor pressure:** | No data available. |
| | |
| **Density:** | 2.90 g/cm3 (23 °C) |
| **Vapor density:** | No data available. |
| **Relative density:** | No data available. |
| **Solubility(ies)** | |
| **Solubility in water:** | Insoluble |
| **Solubility (other):** | No data available. |
| **Partition coefficient (n-octanol/water) Log Pow:** | No data available. |
| **Auto-ignition temperature:** | 450 °C |
| **Decomposition temperature:** | No data available. |
| **SADT:** | No data available. |
| **Viscosity, dynamic:** | 100,000 mPa·s (23 °C) |
| **Viscosity, kinematic:** | No data available. |

## 10 Stability and reactivity

| | |
|---|---|
| **Reactivity:** | No dangerous reaction if used as recommended. |
| **Chemical Stability:** | Material is stable under normal conditions. |
| **Possibility of hazardous reactions:** | Hazardous polymerization does not occur. |
| **Conditions to avoid:** | Heat. Freezing. Moisture. Sunlight. |
| **Incompatible Materials:** | Water. Acids and bases Peroxides. |
| **Hazardous Decomposition Products:** | Carbon Monoxide. Carbon dioxide Silicon dioxide. This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150'C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. A MSDS for formaldehyde is available from Momentive. |

## 11 Toxicological information

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**
**Product:** Not classified for acute toxicity based on available data.

**Dermal**
**Product:**
Not classified for acute toxicity based on available data.

**Inhalation**
**Product:** Not classified for acute toxicity based on available data.

**Repeated dose toxicity**
**Product:** No data available.

**Skin Corrosion/Irritation**
**Product:** No data available.

**Serious Eye Damage/Eye Irritation**
**Product:** No data available.

**Respiratory or Skin Sensitization**
**Product:** No data available.

**Carcinogenicity**
**Product:** No data available.

**Japan Society for Occupational Health: Carcinogen:**
Carbon Black

**Japan. ISHL Designated Carcinogen:**
No carcinogenic components identified

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**
No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**
**Product:** No data available.

**In vivo**
**Product:** No data available.

**Reproductive toxicity**
**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**
**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**
**Product:** No data available.

**Aspiration Hazard**
**Product:** No data available.

**Other effects:** No data available.

## 12 Ecological information

**Ecotoxicity:**

**Acute hazards to the aquatic environment**

**Fish**
**Product:** No data available.

**Aquatic Invertebrates**
**Product:** No data available.

**Chronic hazards to the aquatic environment**

**Fish**
**Product:** No data available.

**Aquatic Invertebrates**
**Product:** No data available.

**Toxicity to Aquatic Plants**
**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**
**Product:** No data available.

**BOD/COD Ratio**
**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**
**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Mobility**

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

| | |
|---|---|
| Aluminum oxide | No data available. |
| Carbon Black | No data available. |

**Hazardous to the ozone layer:** No data available.

**Other adverse effects:** No data available.

## 13 Disposal considerations

**General information:** none none

**Disposal methods:** This product falls under Industrial Waste based on Wastes Disposal and Public Cleansing Law. Dispose of in accordance with this law and local regulations.

**Contaminated Packaging:** Dispose of as unused product.

## 14 Transport information

**International regulations**

**IMDG - International Maritime Dangerous Goods Code**

Not regulated.

**IATA**

Not regulated.

**National Regulations**

**Domestic Standard:** In compliance with domestic law.

**Special precautions for user:** This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods. Keep away from food, foodstuff, acids and bases.

## 15 Regulatory information

**Law concerning Pollutant Release and Transfer Register**

**PRTR and Promotion of Chemical Management Law, new regulated substances (Cabinet Order No. 356, 2008):**

**Specified Class 1 substance(s):** Not applicable
**Class 1 Substance(s):** Not applicable
**Class 2 Substance(s):** Not applicable

**Industrial Safety and Health Act:**

**Article 57-2 Regulated Substance(s):** Aluminum oxide, Carbon black,
**Article 57 Regulated Substance(s) subject to labeling:** Aluminum oxide, Carbon black,

**ISHL Organic Solvents**
Not applicable
**ISHL Designated or Specified Chemical Substances**
Not applicable
**Poisonous and Deleterious Substances Control Act:**

**Specified poisonous substance(s):**
**Main law:** Not applicable
**Cabinet order:** Not applicable

**Poisonous Substance(s):**
**Main law:** Not applicable
**Cabinet order:** Not applicable

**Deleterious Substance(s):**
**Main law:** Not applicable
**Cabinet order:** Not applicable

**High Pressure Gas Safety Law**
Not applicable

**Fire Service Law:**
Designated Combustible Material (Synthetic Resins)
No fire

**Japan CSCL: Priority Assessment Chemical Substances:** Not applicable

**Monitoring Chemical Substances:** Not applicable
**Act on Prevention of Marine Pollution and Maritime Disaster:** Not applicable

**Inventory Status**

| | | |
|---|---|---|
| Australia AICS: | Not in compliance with the inventory. | Remarks: None. |
| Canada DSL Inventory List: | Q (quantity restricted) | Remarks: Please contact your supplier for further information on the inventory status of this material. |
| EINECS, ELINCS or NLP: | On or in compliance with the inventory | Remarks: None. |
| Japan (ENCS) List: | On or in compliance with the inventory | Remarks: None. |

| | | |
|---|---|---|
| China Inv. Existing Chemical Substances: | Q (quantity restricted) | Remarks**:** Please contact your supplier for further information on the inventory status of this material. |
| Korea Existing Chemicals Inv. (KECI): | Please contact your supplier for further information on the inventory status of this material. | Remarks**:** None. |
| Canada NDSL Inventory: | Not in compliance with the inventory. | Remarks**:** None. |
| Philippines PICCS: | Not in compliance with the inventory. | Remarks**:** None. |
| US TSCA Inventory: | On or in compliance with the inventory | Remarks**:** None. |
| New Zealand Inventory of Chemicals: | Not in compliance with the inventory. | Remarks**:** None. |
| Taiwan Chemical Substance Inventory: | On or in compliance with the inventory | Remarks**:** None. |
| REACH: | If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants. | Remarks**:** None. |

## 16 Other Information

**Revision Information:** ARGLO_INVSTSARGHS_JP
**Issue Date:** 03/05/2020
**SDS No.:**

**Disclaimer:**

**Notice to reader**

This material is developed and manufactured for industrial applications only. For medical or other special applications, use after performing safety testing on the product and confirming safety. Never use for human applications such as implant, impregnation, or where a residue may possibly remain in the body.

**Further Information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only asa guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warrantyor quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Literature Reference:** No data available.