SAFETY DATA SHEET
Isomark Silicone Polymer Compound

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is provided voluntarily and is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and described in CLP Regulation (EC) No 1272/2008.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Isomark Silicone Polymer Compound

1.2 Relevant identified uses of the substance or mixture and uses advised against
Moulding of non porous surfaces. No known uses advised against.

1.3 Details of the supplier of the safety data sheet
Isomark Ltd,
Unit 1 Marina Court, Tungsten Park,
Maple Drive,
Hinckley, Leicestershire,
LE10 3BF, UK
Phone: +44 (0)1455 613285
Fax: +44(0) 1455 613287
Email: info@isomarkforensic.com

1.4 Emergency telephone number
In case of emergency Tel. +44 (0)1455 613285 (8.30am to 5.30pm, Monday to Friday)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture
Not classified as hazardous according to the CLP Regulation (EC) No 1272/2008

2.2 Label elements
No label required according to the CLP Regulation (EC) No 1272/2008

2.3 Other hazards
Physical hazards: Not classified as flammable, but will burn if involved in a fire.
Health hazards: No specific symptoms noted by any route of exposure.
Environmental hazards: Not regarded as dangerous for the environment. None of the components are known to be PBT/vPvB.

SECTION 3: Composition

3.1 Substances
Not applicable, the product is a mixture.
3.2 Mixtures

Isomark products are formulated as mixtures of the following non-hazardous components:
- Siloxanes: Polymethylvinyl-, Polymethoxyvinyl-, Polyorgano-, Polymethylhydrogeno-.
- Inorganic Compounds: Silica, Carbon, Titanium Dioxide, Platinum (complexed).

(A trace of chloroplatanic acid impurity may also be present)

SECTION 4: First Aid Measures

4.1 Description of first aid measures
- EYE CONTACT: Wash thoroughly with water and obtain medical attention if signs of discomfort.
- INHALATION: Remove from exposure. If breathing becomes difficult call a doctor.
- SKIN CONTACT: Wash off with soap and water. Seek medical attention.
- INGESTION: If swallowed, rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed
No specific symptoms identified

4.3 Indication of any immediate medical attention and special treatments needed
Symptomatic treatment as required

SECTION 5: Firefighting Measures

5.1 Extinguishing media
Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire. Alkaline powders.

5.2 Special hazards arising from the substance or mixture
Will burn if involved in a fire. Use water spray to cool containers. Polymerisation of components may occur at elevated temperatures, resulting in potential bursting of sealed containers. Keep containers cool. Fires involving large numbers of cartridges may evolve irritating fumes. Prevent run-off from fire from entering water courses and sewers.

5.3 Advice for fire fighters
Self-contained breathing apparatus and thermal protective clothing must be worn in case of fire

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Remove ignition sources. Wear suitable protective clothing including gloves and eye protection to avoid unnecessary skin or eye contact. Spillages may be slippery.

6.2 Environmental precautions
Prevent entry into sewers and watercourses. If large quantities of product enters sewers or watercourses, inform the appropriate environmental authorities.

6.3 Methods and materials for containment and clearing up
Small spills: Wipe up with paper towels and place in a suitable container for disposal. Wash the spill area with detergent and water.

Large spills: Mix spillage with a suitable non-combustible absorbent, e.g. sand or earth, and scrape up and place in a suitable container for disposal. Do not use absorbents that are basic (alkaline). Wash the spill area with detergent and water.

Containers with collected spillage must be properly labelled with correct contents.
6.4 References to other sections
See section 8 for further advice on PPE and section 13 for further advice on disposal.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Use in well ventilated areas.

7.2 Conditions for safe storage, including any incompatibilities
Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Store in closed original container.

7.3 Specific end uses(s)
No specific industry guidelines available.

SECTION 8. Exposure Controls/Personal Protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black, amorphous</td>
<td>1333-86-4</td>
<td>TWA (Inhalable fraction.)</td>
<td>3.5 mg/m³</td>
<td>EH40 WEL</td>
</tr>
<tr>
<td>Carbon Black, amorphous</td>
<td>1333-86-4</td>
<td>STEL (Inhalable fraction.)</td>
<td>7.0 mg/m³</td>
<td>EH40 WEL</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td></td>
<td>inhalable dust</td>
<td>6.0 mg/m³</td>
<td>EH40 WEL</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td></td>
<td>respirable dust</td>
<td>2.4 mg/m³</td>
<td>EH40 WEL</td>
</tr>
</tbody>
</table>

Derived No Effect Level (DNEL): Carbon black
End Use: Worker
Exposure routes: inhalation (inhalable fraction)
Value: 2 mg/m³
Exposure routes: inhalation (respirable fraction)
Value: 0.5 mg/m³

8.2 Exposure controls

Engineering controls
Not normally required. If sprays, mists, etc are likely to be formed use local exhaust ventilation to minimise exposure.

Respiratory protection
Not normally required.

Hand Protection
Under normal usage the ISOMARK application system will allow the material to be dispensed safely and cleanly to the appropriate location without the need for protective gloves or goggles, however, these may be worn as a precaution especially in confined or difficult working conditions. Gloves made of Nitrile, Polyvinyl chloride (PVC), Rubber or plastic may be suitable, but manufacturer recommendations should always be consulted. Change gloves in accordance with manufacturer recommendations. If gloves are damaged during use, remove immediately and wash hands before replacing with new gloves.

Eye protection
Not normally required, but if contact with eyes is likely wear suitable eye protection to protect from splashes, meeting the requirements of BS EN166 3, when handling this product.

Skin protection
Aprons or coveralls are recommended. These should be changed after use or if contaminated. Wash before re-use.
Environmental Exposure Controls
Take suitable measures to prevent entry into drains, sewers and watercourses.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties
- **Appearance:** Black, grey or translucent viscous liquid
- **Odour:** Slight
- **Odour threshold:** Not available
- **pH:** Not applicable
- **Melting point:** Not available
- **Boiling point:** Not available
- **Flashpoint:** > 150 °C (Closed cup according to method Afnor T 60103.)
- **Evaporation rate:** Not available
- **Flammability:** Not applicable
- **Upper/lower flammability limits:** Not available
- **Vapour pressure:** Not available
- **Vapour density:** Not available
- **Relative density:** Approximately 1.12 (20 °C)
- **Solubility in water:** Practically insoluble
- **Solubility in other solvents:** Acetone: Practically Insoluble, Alcohol: Practically Insoluble, Diethylether: Dispersible, Aliphatic hydrocarbons: Dispersible, Aromatic hydrocarbons: Dispersible, Chlorinated solvents: Dispersible
- **Partition coefficient (log Kow):** Not available
- **Autoignition temperature:** 400°C
- **Decomposition temperature:** > 200°C
- **Viscosity:** 18 000 mm²/s (25 °C)
- **Explosive properties:** Contains no components classified as explosive
- **Oxidising properties:** Contains no components classified as oxidising

9.2 Other information
None available

SECTION 10: Stability and Reactivity

10.1 Reactivity
Not considered to be a reactive material

10.2 Chemical stability
Stable under normal conditions of use and storage

10.3 Possibility of hazardous reactions
During Storage, This product may generate hydrogen gas. Quantity of hydrogen potentially released (l/kg of product): < 4

10.4 Conditions to avoid
None noted.

10.5 Incompatible materials

10.6 Hazardous decomposition products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Amorphous silica.
SECTION 11: Toxicological Information

11.1 Information on toxicological effects

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

(a) acute toxicity  No effects expected (assessment based on ingredients).
(b) skin corrosion/irritation  No effects expected (assessment based on ingredients).
(c) serious eye damage/irritation  No effects expected (assessment based on ingredients).
(d) respiratory/skin sensitisation  No effects expected (assessment based on ingredients).
(e) germ cell mutagenicity  No effects expected (assessment based on ingredients).
(f) carcinogenicity  No effects expected (assessment based on ingredients).
(g) reproductive toxicity  No effects expected (assessment based on ingredients).
(h) STOT-single exposure  No effects expected (assessment based on ingredients).
(i) STOT-repeated exposure  No effects expected (assessment based on ingredients).
(j) aspiration hazard  No effects expected (assessment based on ingredients).

SECTION 12: Ecological Information

12.1 Toxicity
No effects expected on aquatic organisms (assessment based on ingredients).

12.2 Persistence and degradability
The organic components in this product are expected to degrade very slowly.

12.3 Bioaccumulative potential
The polymer substances and inorganic materials in this product are not expected to bioaccumulate.

12.4 Mobility in soil
Once cured, this product is not expected to be mobile in the environment.

12.5 Results of PBT and vPvB assessment
None of the components are known to be PBT or vPvB.

12.6 Other adverse effects
None known.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods
Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Incinerate in suitable combustion chamber is suggested.

Contaminated packages should be as empty as possible. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle following cleaning or dispose of at an authorised site.

European Waste Codes: Unused product: 07 02 17

SECTION 14: Transport Information

Not classified as dangerous goods

<table>
<thead>
<tr>
<th>14.1 UN Number</th>
<th>ADR</th>
<th>IMDG</th>
<th>ICAO</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 UN Proper shipping name</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
14.3 Transport hazard class(es) | None | None | None
14.4 Packing group | None | None | None
14.5 Environmental hazards | None | None | None
14.6 Special precautions for user | None | None | None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable | Not applicable | Not applicable

SECTION 15: Regulatory Information

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

Inventory Status
Australia AICS: On or in compliance with the inventory
Canada DSL Inventory List: On or in compliance with the inventory
EU EINECS List: On or in compliance with the inventory
Japan (ENCS) List: On or in compliance with the inventory
China Inv. Existing Chemical Substances: On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory
Philippines PICCS: On or in compliance with the inventory
US TSCA Inventory: On or in compliance with the inventory
New Zealand Inventory of Chemicals: On or in compliance with the inventory

15.2 Chemical Safety Assessment
A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other Information


List of Abbreviations used in this SDS:
- CAS  Chemical Abstracts Service
- CLP  Classification, Labelling and Packaging Regulation (EC) no 1272/2008
- DSD  Dangerous Substances Directive 67/548/EEC
- DPD  Dangerous Preparations Directive 1999/45/EC
- EC  European Community/Commission
- PBT  Persistent, Bioaccumulative and Toxic
- REACH  Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006
- vPvB  very Persistent, very Bioaccumulative

References:
- ECHA CHEM database
- Suppliers’ SDSs for component substances

Method used for classification of mixtures:
Ingredient based approaches

H Statements used in Section 3
None

Training requirements for workers
No special requirements