1 Identification

Product identifier

Trade name: **FORCE 10,000 D**

SDS ID Number: 60074

Relevant identified uses of the substance or mixture, and uses advised against

Specialty construction product. Not intended for other uses

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
  +1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

Label elements:

Hazard pictograms Not applicable.
Not applicable.

Hazard statements Not applicable.
NFPA ratings (scale 0 - 4)

<table>
<thead>
<tr>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS-ratings (scale 0 - 4)

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FIRE</th>
<th>REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Health = 1
Flammability = 0
Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

(Cont. on page 2)
Trade name: FORCE 10,000 D

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

| Hazardous components: | 69012-64-2 Silica, fume | 50-100% |

4 First-aid measures

Description of first aid measures

General information: Get medical advice/attention if you feel unwell.
After inhalation:
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
After skin contact: Wash with water and soap and rinse thoroughly.
After eye contact: Rinse cautiously with water for several minutes.
After swallowing:
Wash out mouth with water
Never give anything by mouth to an unconscious person.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.
Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Fire-fighting measures

Special hazards arising from the substance or mixture No further relevant information available.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up:
Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
**Trade name: FORCE 10,000 D**

---

**7 Handling and storage**

**Handling:**

**Precautions for safe handling**
Contains Condensed Silica Fume CAS Number 69012-64-2 and small amounts of oxides and salts of aluminum, iron, magnesium, calcium, sodium, and potassium. Inhalation of dust may cause respiratory irritation resulting in coughing, sneezing and other nuisance symptoms. Eye contact may cause slight physical or mechanical irritation. Prolonged or repeated use may cause skin irritation and dryness. Read and understand all Health and Safety information on the product Label and Safety Data Sheet before use.

**Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage, including any incompatibilities**

**Storage:**

**Information about storage in one common storage facility:** No special measures required.

**Further information about storage conditions:** Keep receptacle tightly sealed.

**Specific end use(s)** No further relevant information available.

---

**8 Exposure controls/personal protection**

**Additional information about design of technical systems:** No further data; see item 7.

**Control parameters**

**Components with limit values that require monitoring at the workplace:**
OSHA Particulates Not Otherwise Regulated (PNOR): Total dust 15 mg/m³, Respirable fraction 5 mg/m³

<table>
<thead>
<tr>
<th>69012-64-2 Silica, fume</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLV (USA): TLV withdrawn</td>
</tr>
</tbody>
</table>

**Additional information:** The lists that were valid during the creation were used as basis.

**Work/Hygienic Practices:**
Avoid mixing dust. Equip mixers and hoppers with dust covers. Avoid contact with skin and eyes. Wear skin and eye protection to avoid contact with dust.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.

**Breathing equipment:**
Use an approved (NIOSH N95) dust respirator when airborne dust is expected. If the exposure limit is exceeded, a full facepiece particulate respirator (NIOSH filters N100) is required.

**Protection of hands:** Rubber or other impervious gloves should be worn to prevent skin contact.

**Eye protection:**
Safety glasses with side shield protection.
A face shield should also be worn if there is potential exposure to splash or spray.

**Body protection:**
Use personal protective equipment as required.
Take off contaminated clothing.

### 9 Physical and chemical properties

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>General Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance:</strong></td>
</tr>
<tr>
<td>Form: Solid</td>
</tr>
<tr>
<td>Color: According to product specification</td>
</tr>
<tr>
<td>Odor: Characteristic</td>
</tr>
<tr>
<td>Odor threshold: Not determined.</td>
</tr>
<tr>
<td><strong>pH-value (~) at 20 °C (68 °F):</strong> 7</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
</tr>
<tr>
<td>Melting point/Melting range: 1700 °C (3092 °F)</td>
</tr>
<tr>
<td>Boiling point/Boiling range: 100 °C (212 °F)</td>
</tr>
<tr>
<td>Flash point: Not applicable.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gaseous):</strong> Not determined.</td>
</tr>
<tr>
<td><strong>Decomposition temperature:</strong> Not determined.</td>
</tr>
<tr>
<td><strong>Auto igniting:</strong> Product is not selfigniting.</td>
</tr>
<tr>
<td><strong>Danger of explosion:</strong> Product does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>Explosion limits:</strong></td>
</tr>
<tr>
<td>Lower: Not determined.</td>
</tr>
<tr>
<td>Upper: Not determined.</td>
</tr>
<tr>
<td>VOC Content (max): Not determined.</td>
</tr>
<tr>
<td><strong>Vapor pressure:</strong> Not applicable.</td>
</tr>
<tr>
<td><strong>Density: (~) Not determined.</strong></td>
</tr>
<tr>
<td><strong>Relative density</strong> Not determined.</td>
</tr>
<tr>
<td><strong>Vapor density</strong> Not applicable.</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong> Not applicable.</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with</strong></td>
</tr>
<tr>
<td>Water: Not miscible or difficult to mix.</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water):</strong> Not determined.</td>
</tr>
<tr>
<td><strong>Viscosity:</strong></td>
</tr>
<tr>
<td>Dynamic: Not applicable.</td>
</tr>
<tr>
<td>Kinematic: Not applicable.</td>
</tr>
<tr>
<td>Molecular weight Not applicable.</td>
</tr>
<tr>
<td><strong>Other information</strong> No further relevant information available.</td>
</tr>
</tbody>
</table>
10 Stability and reactivity

Reactivity Stable under normal conditions.

Chemical stability

Thermal decomposition: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

Information on toxicological effects

Acute toxicity:

Primary irritant effect:

on the skin: No irritating effect expected

on the eye: No irritating effect expected

inhalation: No irritating effect expected

Ingestion:

Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer) Human Carcinogenicity:
Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable

69012-64-2 Silica, fume

NTP (National Toxicology Program)
K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Not known to be hazardous to water.
Trade name: **FORCE 10,000 D**

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

**Other adverse effects** No further relevant information available.

---

**13 Disposal considerations**

**Waste treatment methods**

**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

---

**14 Transport information**

**UN-Number**

DOT, ADR, ADN, IMDG, IATA  Not applicable.

**UN proper shipping name**

DOT, ADR, ADN, IMDG, IATA  Not applicable.

**Transport hazard class(es)**

DOT, ADR, ADN, IMDG, IATA  Not applicable.

**Packing group**

DOT, ADR, IMDG, IATA  Not applicable.

**Environmental hazards:**

Marine pollutant: No

**Special precautions for user** Not applicable.

**Transport/Additional information:**

**DOT**

Remarks: Not Regulated.

**UN "Model Regulation":** Not applicable.

---

**15 Regulatory information**

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

**Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

**Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):**

None of the ingredients is listed.

**SARA Section 312/Tier I & II Hazard Categories:**

<table>
<thead>
<tr>
<th>Health Delayed (chronic)</th>
<th>Flammable</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
Trade name: *FORCE 10,000 D*

---

**43.0 Reactive**
No

**Pressure**
No

**Health Immediate (acute)**
Yes

**North America Chemical Inventory Status**

**TSCA (Toxic Substances Control Act - United States):**
All ingredients are listed or exempt from listing unless otherwise noted below.

**CEPA (Canadian DSL):**
All ingredients are listed or exempt from listing unless otherwise noted below.

**Right to Know Ingredient Disclosure:**

69012-64-2 Silica, fume

---

**California Proposition 65**

**Chemicals known to cause cancer:**

Quartz (SiO2)

**Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

**Carcinogenicity Categories**

**EPA (Environmental Protection Agency)**
None of the ingredients is listed.

**TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)**

*Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable*

None of the ingredients is listed.

**NIOSH-Cancer (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

**Volatile Organic Compounds (VOC) reported per the Emission Standards.**
If no g/L value is provided this product is not subject to above standard.

---

**16 Other information**

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

**Department issuing SDS:**
GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

**Date of preparation / last revision** 06/29/2016 / -

**The first date of preparation** 06/29/2015

**Number of revision times and the latest revision date** 1.0 / 06/29/2016

---