Section 1- PRODUCT IDENTIFICATION

<table>
<thead>
<tr>
<th>COMPOSITION</th>
<th>PRODUCT NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>TiC</td>
<td>Titanium Carbide</td>
</tr>
</tbody>
</table>

Section 2- HAZARDOUS INGREDIENTS

Note: Products under normal conditions do not represent an inhalation, ingestion or contact health hazard.

<table>
<thead>
<tr>
<th>MATERIAL OR COMPONENT</th>
<th>CAS NUMBER</th>
<th>WT%</th>
<th>EXPOSURE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL (Mg/M3)</td>
</tr>
<tr>
<td>Titanium Carbide</td>
<td>12070-08-5</td>
<td>100</td>
<td>Not Set</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Nuisance dust=10mg/m3</td>
</tr>
</tbody>
</table>

Section 3- PHYSICAL DATA

<table>
<thead>
<tr>
<th>MATERIAL IS (AT NORMAL CONDITIONS)</th>
<th>APPERANCE AND ODOR</th>
<th>SPECIFIC GRAVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Liquid</td>
<td>Grey metallic powder; No odor</td>
<td>4.93 gm/cc</td>
</tr>
<tr>
<td>□ Solid □ Gas □ Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MELTING POINT (BASE METAL)</td>
<td>3140C (+/-90)</td>
<td></td>
</tr>
</tbody>
</table>

Section 4- FIRE AND EXPLOSION

<table>
<thead>
<tr>
<th>Flash Point (Method Used)</th>
<th>Flammable Limits</th>
<th>LEL</th>
<th>UEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>Non-Flammable</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

EXTINGUISHING MEDIA

DO NOT USE WATER ON METAL FIRES – Use dry chemical, CO2, graphite

SPECIAL FIRE FIGHTING PROCEDURES

Requires full face self contained breathing apparatus with full protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Spontaneous dust explosion possible due to static initiation if dust is very fine.

Section 5- REACTIVITY DATA

<table>
<thead>
<tr>
<th>STABILITY</th>
<th>INCOMPATABILITY (MATERIALS TO AVOID)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable</td>
<td>Contact with acids can generate flammable hydrogen gas</td>
</tr>
</tbody>
</table>

CONDITIONS TO AVOID

None

HAZARDOUS DECOMPOSIOTION PRODUCTS

None
### Section 6- HEALTH HAZARD GUIDE

**MAJOR EXPOSURE HAZARD**

- Inhalation
- Skin
- Skin Absorption
- Eye Contact
- Ingestion

**EFFECTS OF OVEREXPOSURE**

**INHALATION:** May cause mild irritation of the nose and throat. Exposure to TiC2 aerosol for five months caused lung changes in humans similar to silicosis.

**SKIN CONTACT:** None

**EYE CONTACT:** Mechanical irritation, watering of eyes and inflammation of eyelids.

**OTHER:** Insoluble titanium compounds are generally considered physiologically inert and non-toxic.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Respiratory disorders

**TOXICITY DATA:** No specific data on this compound

**CARCINOGENICITY:** None  NTP? No  IARC Monographs? No  OSHA Regulated? No

**EMERGENCY & FIRST AID PROCEDURES**

**INHALATION:** Remove victim from exposed area to fresh air. Give oxygen if breathing is difficult and seek medical attention.

**SKIN CONTACT:** Remove contaminated clothing and shoes immediately. Brush material off skin and wash affected area with mild soap and water. Seek medical attention.

**EYE CONTACT:** Flush eyes with lukewarm water, lifting upper and lower eyelids for at least 15 minutes. Seek medical attention.

**INGESTION:** If large quantities are consumed; Give 1-2 glasses of milk or water and induce vomiting; seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

### Section 7- SPILL OR LEAK PROCEDURES

**SPILL OR LEAK PROCEDURES**

Wear a self contained breathing apparatus and full protective clothing. Isolate the area where the spill occurred and insure that proper ventilation is available. Vacuum up spill using a high efficiency unit and place in a container for proper disposal. Take care not to raise dust.

**WASTE DISPOSAL METHODS**

Observe all federal, state and local regulations when storing or disposing of this substance.

### Section 8- SPECIAL PROTECTION

**RESPIRATORY**

NIOSH approved dust-mist-fume cartridge respirator.

**VENTILATION**

Local Exhaust: Maintain below TLV levels. General Mechanical: Recommended.

**EYE PROTECTION & PROTECTIVE CLOTHING**

Use safety glasses. Wear neoprene protective gloves. Use protective gear suitable to prevent contamination.

### Section 9- SPECIAL PRECAUTIONS

Store in tightly closed containers in a cool, dry place. Wash hands and face thoroughly after handling and before eating.

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