SECTION 1: IDENTIFICATION

1.1. Product Identifier
Product Form: Article
Product Name: All Cemented Tungsten Carbide and Cermet Tools
Synonyms: Carbide Cutting Tools

1.2. Intended Use of the Product
Use of the substance/mixture: No additional information available

1.3. Name, Address, and Telephone of the Responsible Party
Company

1.4. Emergency Telephone Number
No additional information available

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture
Classification (GHS-US)
Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: this product is considered a manufactured article and is not considered a hazard when used in a manner which is consistent with the labeled directions.

2.2. Label Elements
GHS-US Labeling
No labeling applicable

2.3. Other Hazards
During normal operation and usage, cemented carbide products do not present inhalation, ingestion, or other chemical hazards. However, operations such as grinding, cutting, burning, and welding of such products may release dusts, fumes, or vapors which may present health hazards. The health hazards described below relate to these non-routine operations, as well as exposure to component materials.

Wet or dry grinding of cemented carbide products will produce dusts of potentially hazardous ingredients which can be inhaled, swallowed, or come in contact with the skin or eyes. During wet grinding, the dust can be suspended or dissolved in the coolant mist.

2.4. Unknown Acute Toxicity (GHS-US)
No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tungsten carbide</td>
<td>(CAS No) 12070-12-1</td>
<td>10 - 94</td>
<td>Not classified</td>
</tr>
<tr>
<td>Titanium carbide (TiC)</td>
<td>(CAS No) 12070-08-5</td>
<td>0.2 - 53</td>
<td>Not classified</td>
</tr>
<tr>
<td>Cobalt</td>
<td>(CAS No) 7440-48-4</td>
<td>0 - 20</td>
<td>Acute Tox. 4 (Oral), H302 Acute Tox. 1 (Inhalation:dust,mist), H330 Resp. Sens. 1B, H334 Skin Sens. 1, H317 Carc. 2, H351 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</td>
</tr>
</tbody>
</table>
Cemented Tungsten Carbide and Cermet Tools

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<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>Reactivity</th>
<th>Explosion Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel</td>
<td>7440-02-0</td>
<td>0 - 15</td>
<td>Skin Sens. 1, H317, Carc. 2, H351, STOT RE 1, H372, Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>Tantalum carbide (TaC)</td>
<td>12070-06-3</td>
<td>0 - 15</td>
<td>Not classified</td>
</tr>
<tr>
<td>Niobium carbide (Nb2C)</td>
<td>12011-99-3</td>
<td>0 - 5</td>
<td>Not classified</td>
</tr>
<tr>
<td>Chromium</td>
<td>7440-47-3</td>
<td>0 - 3</td>
<td>Comb. Dust, H232</td>
</tr>
<tr>
<td>Chromium carbide (Cr3C2)</td>
<td>12012-35-0</td>
<td>0 - 3</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aluminum oxide</td>
<td>1344-28-1</td>
<td>0 - 2</td>
<td>Not classified</td>
</tr>
<tr>
<td>Boron oxide (B2O3)</td>
<td>1303-86-2</td>
<td>0 - 2</td>
<td>Repr. 1B, H360</td>
</tr>
<tr>
<td>Molybdenum</td>
<td>7439-98-7</td>
<td>0 - 2</td>
<td></td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Wash with plenty of soap and water. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid Measures After Ingestion: If substantial quantities are swallowed, dilute with large amount of water. Induce vomiting and seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: None expected under normal conditions of use.

Symptoms/Injuries After Inhalation: Dust from this product may cause irritation to the respiratory tract.

Symptoms/Injuries After Skin Contact: Dust may cause irritation in skin folds or by contact in combination with tight clothing. Skin exposure can cause an allergic red rash (cobalt itch).

Symptoms/Injuries After Eye Contact: Eye contact with dust may cause mechanical irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Chronic exposure to respirable dust containing cobalt and tungsten carry the potential to cause permanent respiratory diseases, including occupational asthma, interstitial pneumonitis and fibrosis (hard-metal disease), and emphysema. Symptoms include productive cough, wheezing, dyspnea (upon exertion), pleuritic chest pain, and weight loss. Reports outside the industry suggest that ingestion of significant amounts of cobalt can cause blood, heart, and other organ effects. Cobalt metal with tungsten carbide is listed by IARC as Group 2A - probably carcinogenic to humans. Nickel is listed by IARC as Category 2B - possibly carcinogenic to humans. Cobalt is listed by ACGIH as an animal carcinogen (A3). Cobalt and nickel are known to the State of California to cause cancer. Nickel is considered reasonably anticipated to be a carcinogen by NTP.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Dusts may present a fire or explosion hazard under rare favoring conditions of particle size, dispersion, concentration, and strong ignition source. However, this is not expected to be a problem under normal handling conditions.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Do not breathe fumes or vapors from fire.
Protection During Firefighting: For a dust fire confined to a small area, use a respirator approved for toxic dusts and fumes. For a large fire involving this material, fire fighters should use a self-contained breathing apparatus.

Other Information: Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

6.1.1. For Non-emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).

6.1.2. For Emergency Responders
Protective Equipment: Equip cleanup crew with proper protection.

6.2. Environmental Precautions
Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up
For Containment: Contain and collect as any solid.
Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Avoid actions that cause dust to become airborne during clean-up such as dry sweeping or using compressed air. Use HEPA vacuum or thoroughly wet with water to clean-up dust. Use PPE described in Section 8. Transfer spilled material to a suitable container for disposal.

6.4. Reference to Other Sections
See heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling
Additional Hazards When Processed: Use care during processing to minimize generation of dust. Avoid dust production that exceeds permissible exposure limits.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities
Storage Conditions: Store in a dry, cool and well-ventilated place.

7.3. Specific End Use(s)
No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters
For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

<table>
<thead>
<tr>
<th>Substance</th>
<th>USA ACGIH TWA (mg/m³)</th>
<th>USA NIOSH REL (mg/m³)</th>
<th>USA IDLH (mg/m³)</th>
<th>USA OSHA PEL (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum oxide</td>
<td>10 mg/m³</td>
<td>15 mg/m³ (total dust)</td>
<td>5 mg/m³ (respirable fraction)</td>
<td></td>
</tr>
<tr>
<td>Boron oxide</td>
<td>10 mg/m³</td>
<td>10 mg/m³</td>
<td>2000 mg/m³</td>
<td>15 mg/m³ (total dust)</td>
</tr>
<tr>
<td>Chromium</td>
<td>0.5 mg/m³</td>
<td>0.5 mg/m³</td>
<td>250 mg/m³</td>
<td>1 mg/m³</td>
</tr>
<tr>
<td>Cobalt</td>
<td>0.02 mg/m³</td>
<td>Confirmed Animal Carcinogen with Unknown Relevance to Humans</td>
<td>20 mg/m³ (dust and fume)</td>
<td>0.1 mg/m³ (dust and fume)</td>
</tr>
</tbody>
</table>
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Nickel (7440-02-0)

| ACIGH TWA (mg/m³) | 1.5 mg/m³ (inhalable fraction) |
| ACIGH STEL (mg/m³) | 3 mg/m³ (respirable fraction) |
| Chemical category | Not Suspected as a Human Carcinogen |
| NIOSH REL (TWA) (mg/m³) | 0.015 mg/m³ |
| IDLH (mg/m³) | 10 mg/m³ |
| OSHA PEL (TWA) (mg/m³) | 1 mg/m³ |

Zirconium (7440-67-7)

| ACIGH TWA (mg/m³) | 5 mg/m³ |
| ACIGH STEL (mg/m³) | 10 mg/m³ |
| Chemical category | Not Classifiable as a Human Carcinogen |
| NIOSH REL (TWA) (mg/m³) | 5 mg/m³ |
| NIOSH REL (STEL) (mg/m³) | 10 mg/m³ |
| IDLH (mg/m³) | 50 mg/m³ |

Molybdenum (7439-98-7)

| ACIGH TWA (mg/m³) | 10 mg/m³ (inhalable fraction) |
| IDLH (mg/m³) | 5000 mg/m³ |

8.2. Exposure Controls

Appropriate Engineering Controls: Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits. Power equipment should be equipped with proper dust collection devices. Ensure all national/local regulations are observed.

Personal Protective Equipment: Not generally required. The use of personal protective equipment may be necessary as conditions warrant.

Materials for Protective Clothing: Chemically resistant materials and fabrics.
Hand Protection: Chemically resistant gloves are recommended, but not required.
Eye Protection: Chemical safety goggles.
Skin and Body Protection: Wear suitable protective clothing.
Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State: Solid
Appearance: Dark Gray
Odor: Odorless
Odor Threshold: No data available
pH: No data available
Evaporation Rate: No data available
Melting Point: 5045 °C (9113 °F)
Freezing Point: No data available
Boiling Point: No data available
Flash Point: No data available
Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Flammability (solid, gas): No data available
Vapor Pressure: No data available
Relative Vapor Density at 20 °C: No data available
Relative Density: 10 - 15 (water=1)
Solubility: Insoluble.
Partition Coefficient: N-Octanol/Water: No data available
Viscosity: No data available
SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Hazardous reactions will not occur under normal conditions.
10.2. Chemical Stability: Stable at standard temperature and pressure.
10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
10.4. Conditions to Avoid: Not available
10.5. Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Contact of dust with strong oxidizers may cause fire or explosion.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD₅₀ Oral Rat</th>
<th>LC₅₀ Inhalation Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum oxide (1344-28-1)</td>
<td>&gt; 15900 mg/kg</td>
<td>&gt; 2.3 mg/l/4h</td>
</tr>
<tr>
<td>Chromium (7440-47-3)</td>
<td>LD₅₀ Oral Rat: &gt; 5000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Cobalt (7440-48-4)</td>
<td>LD₅₀ Oral Rat: 215.9 - 1140 mg/kg</td>
<td>LC₅₀ Inhalation Rat: &gt; 10 mg/l (Exposure time: 1 h)</td>
</tr>
<tr>
<td>Nickel (7440-02-0)</td>
<td>LD₅₀ Oral Rat: &gt; 9000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Molybdenum (7439-98-7)</td>
<td>LD₅₀ Oral Rat: &gt; 2000 mg/kg</td>
<td>LD₅₀ Dermal Rat: &gt; 2000 mg/kg</td>
</tr>
</tbody>
</table>

Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Not classified
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Carcinogenicity: Not classified

Chromium (7440-47-3)
- IARC group: 3

Cobalt (7440-48-4)
- IARC group: 2B

Nickel (7440-02-0)
- IARC group: 2B
- National Toxicology Program (NTP) Status: Reasonably anticipated to be Human Carcinogen.

Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: Dust from this product may cause irritation to the respiratory tract.
Symptoms/Injuries After Skin Contact: Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/Injuries After Eye Contact: Eye contact with dust may cause mechanical irritation.
Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms: None expected under normal conditions of use.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC₅₀ Fish 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum oxide (1344-28-1)</td>
<td>&gt; 100 mg/l</td>
</tr>
</tbody>
</table>
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EC50 Daphnia 1 > 100 mg/l
ErC50 (algae) > 100 mg/l
NOEC (acute) > 50 mg/l

Boron oxide (B2O3) (1303-86-2)
EC50 Daphnia 1 370 - 490 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Nickel (7440-02-0)
LC50 Fish 1 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
EC50 Daphnia 1 13 (13 - 200) µg/l (Exposure time: 48h - Species: Ceriodaphnia dubia [static])
LC 50 Fish 2 1.3 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 Daphnia 2 1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 Other Aquatic Organisms 2 0.174 (0.174 - 0.311) mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])

12.2. Persistence and Degradability  No additional information available
12.3. Bioaccumulative Potential

Cobalt (7440-48-4)
BCF fish 1 (no bioaccumulation)

12.4. Mobility in Soil  No additional information available
12.5. Other Adverse Effects
No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT  Not regulated for transport
14.2. In Accordance with IMDG  Not regulated for transport
14.3. In Accordance with IATA  Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Aluminum oxide (1344-28-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on United States SARA Section 313
SARA Section 313 - Emission Reporting 1.0 % (fibrous forms)

Boron oxide (B2O3) (1303-86-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Chromium (7440-47-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on United States SARA Section 313
SARA Section 313 - Emission Reporting 1.0 %

Chromium carbide (Cr3C2) (12012-35-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Cobalt (7440-48-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on United States SARA Section 313
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting 0.1 %

Nickel (7440-02-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on United States SARA Section 313
RQ (Reportable quantity, section 304 of EPA's List of Lists) 100 lb (only applicable if particles are < 100 µm)
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard
### Delayed (chronic) health hazard

#### SARA Section 313 - Emission Reporting

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nb2C</td>
<td>0.1 %</td>
</tr>
</tbody>
</table>

#### Niobium carbide (Nb2C) (12011-99-3)
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Tantalum carbide (TaC) (12070-06-3)
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Titanium carbide (TiC) (12070-08-5)
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Tungsten carbide (12070-12-1)
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Zirconium (7440-67-7)
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Cobalt (7440-48-4)
- **U.S. - California - Proposition 65 - Carcinogens List**
  - WARNING: This product contains chemicals known to the State of California to cause cancer.

#### Nickel (7440-02-0)
- **U.S. - California - Proposition 65 - Carcinogens List**
  - WARNING: This product contains chemicals known to the State of California to cause cancer.

#### Aluminum oxide (1344-28-1)
- **U.S. - Massachusetts - Right To Know List**
- **U.S. - New Jersey - Right to Know Hazardous Substance List**
- **U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**
- **U.S. - Pennsylvania - RTK (Right to Know) List**

#### Boron oxide (B2O3) (1303-86-2)
- **U.S. - Massachusetts - Right To Know List**
- **U.S. - New Jersey - Right to Know Hazardous Substance List**
- **U.S. - Pennsylvania - RTK (Right to Know) List**

#### Chromium (7440-47-3)
- **U.S. - Massachusetts - Right To Know List**
- **U.S. - New Jersey - Right to Know Hazardous Substance List**
- **U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**
- **U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**
- **U.S. - Pennsylvania - RTK (Right to Know) List**

#### Cobalt (7440-48-4)
- **U.S. - Massachusetts - Right To Know List**
- **U.S. - New Jersey - Right to Know Hazardous Substance List**
- **U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**
- **U.S. - Pennsylvania - RTK (Right to Know) List**

#### Nickel (7440-02-0)
- **U.S. - Massachusetts - Right To Know List**
- **U.S. - New Jersey - Right to Know Hazardous Substance List**
- **U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**
- **U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**
- **U.S. - Pennsylvania - RTK (Right to Know) List**

#### Tungsten carbide (12070-12-1)
- **U.S. - New Jersey - Right to Know Hazardous Substance List**

#### Zirconium (7440-67-7)
- **U.S. - Massachusetts - Right To Know List**
- **U.S. - New Jersey - Right to Know Hazardous Substance List**
- **U.S. - Pennsylvania - RTK (Right to Know) List**

#### Molybdenum (7439-98-7)
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U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date: 05/01/2015
Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 1 (Inhalation:dust,mist)</th>
<th>Acute toxicity (inhalation:dust,mist) Category 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral) Category 4</td>
</tr>
<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 3</td>
</tr>
<tr>
<td>Carc. 2</td>
<td>Carcinogenicity Category 2</td>
</tr>
<tr>
<td>Comb. Dust</td>
<td>Combustible Dust</td>
</tr>
<tr>
<td>Pyr. Sol. 1</td>
<td>Pyrophoric solids Category 1</td>
</tr>
<tr>
<td>Repr. 1B</td>
<td>Reproductive toxicity Category 1B</td>
</tr>
<tr>
<td>Repr. 2</td>
<td>Reproductive toxicity Category 2</td>
</tr>
<tr>
<td>Resp. Sens. 1B</td>
<td>Respiratory sensitisation Category 1B</td>
</tr>
<tr>
<td>Self-heat. 1</td>
<td>Self-heating substances and mixtures Category 1</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Skin sensitization Category 1</td>
</tr>
<tr>
<td>STOT RE 1</td>
<td>Specific target organ toxicity (repeated exposure) Category 1</td>
</tr>
<tr>
<td>Water-react. 1</td>
<td>Substances and mixtures which in contact with water emit flammable gases Category 1</td>
</tr>
<tr>
<td>H232</td>
<td>May form combustible dust concentrations in air</td>
</tr>
<tr>
<td>H250</td>
<td>Catches fire spontaneously if exposed to air</td>
</tr>
<tr>
<td>H251</td>
<td>Self-heating: may catch fire</td>
</tr>
<tr>
<td>H260</td>
<td>In contact with water releases flammable gases which may ignite spontaneously</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H330</td>
<td>Fatal if inhaled</td>
</tr>
<tr>
<td>H334</td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer</td>
</tr>
<tr>
<td>H360</td>
<td>May damage fertility or the unborn child</td>
</tr>
<tr>
<td>H361</td>
<td>Suspected of damaging fertility or the unborn child</td>
</tr>
<tr>
<td>H372</td>
<td>Causes damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)