NORTON USA FORMAT MSDS. DTDCCDP

MATERIAL SAFETY DATA SHEET

DATE PRINTED: FEB 25, 2002
MSDS NO. DTDCCDP
OUTBOUND
Rotary Diamond Dresser, Sintered Type - CDP

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME
Rotary Diamond Dresser, Sintered Type - CDP

TRADE NAME
MANUFACTURER(4)
Saint-Gobain Abrasives, Inc.
65 Beale Road
Arden, NC 28704 USA
(828) 684-2500

REVISION DATE
2/04/2002
MSDS PRINT FORMAT
NUSA

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>SUBSTANCE DESCRIPTION</th>
<th>PERCENT</th>
<th>CAS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper(*)</td>
<td>5.000- 7.000</td>
<td>7440-50-8</td>
</tr>
<tr>
<td>Iron</td>
<td>70.000-80.000</td>
<td>7439-89-6</td>
</tr>
<tr>
<td>Tungsten</td>
<td>10.000-20.000</td>
<td>7440-33-7</td>
</tr>
<tr>
<td>Tungsten Carbide</td>
<td>2.000- 7.000</td>
<td>12070-12-1</td>
</tr>
<tr>
<td>OTHER</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(*) This substance is regulated under section 313 of the Emergency Planning and Community Right - to - Know Act of 1986 and the Canadian National Pollution Reduction Initiative (NPRI).

SECTION 3. HAZARDS IDENTIFICATION

INHALATION ACUTE EXPOSURE EFFECTS
May cause coughing at high concentrations and shortness of breath.

INHALATION CHRONIC EXPOSURE EFFECTS
May affect breathing capacity.

EYE CONTACT ACUTE EXPOSURE EFFECTS
Dust may irritate eyes.

SKIN CONTACT ACUTE EXPOSURE EFFECTS
Some may experience skin irritation from dust.

INGESTION ACUTE EXPOSURE EFFECTS
No known adverse effects, but ingestion not recommended.

SECTION 4. FIRST AID MEASURES

INHALATION
Remove to fresh air. Artificial respiration as needed. Obtain medical assistance.

SKIN CONTACT
Wash affected areas with soap and water. Obtain medical assistance.

EYE CONTACT
Wash with large amounts of water. Obtain first aid and medical assistance, if needed.

INGESTION
Obtain medical assistance.

SECTION 5. FIRE FIGHTING MEASURES

FIRE FIGHTING PROCEDURES
SECTION 6. ACCIDENTAL RELEASE MEASURES

CLEAN-UP
Normal clean up procedures.

SECTION 7. HANDLING AND STORAGE

HANDLING
See ANSI STANDARD 87.1. Section 2.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION PROTECTION
Handle with adequate ventilation. See OSHA 29 CFR 1910.94 (ventilation) and 29 CFR 1910.1000 (Air contaminants).

RESPIRATORY PROTECTION
As needed, approved dust respirators. See OSHA 29 CFR 1910.134.

EYE PROTECTION
Recommended. See OSHA 29 CFR 1910.133.

OTHER PROTECTION

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR
Metallic, no odor.

SECTION 10. STABILITY AND REACTIVITY

INCOMPATIBILITIES
Avoid acids of all types with a pH < 4.0.

SECTION 11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY
Copper - EPA-D
LD50/LC50
Values are not appropriate or available.

SECTION 12. ECOLOGICAL INFORMATION

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL
Follow landfill methods consistent with applicable federal, state and local laws. Products listed with fluorides may have slightly soluble fluoride swarf.

SECTION 14. TRANSPORT INFORMATION
NORTON USA FORMAT MSDS: DTDCDP

HAZARD CLASS
This product is not hazardous as defined by the Department of Transportation. (USA)
This product is "Not Regulated" under the Transportation of Dangerous Goods Act. (CAN)

SECTION 15. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>SUBSTANCE DESCRIPTION</th>
<th>UNITS</th>
<th>OSHA</th>
<th>ACGIH</th>
<th>MOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper(*)</td>
<td>MG/M3</td>
<td>0.1000</td>
<td>0.2000</td>
<td>0.2000</td>
</tr>
<tr>
<td>Iron</td>
<td>MG/M3</td>
<td>1.0000</td>
<td>1.0000</td>
<td>1.0000</td>
</tr>
<tr>
<td>Tungsten</td>
<td>MG/M3</td>
<td>5.0000</td>
<td>5.0000</td>
<td>5.0000</td>
</tr>
<tr>
<td>Tungsten Carbide</td>
<td>MG/M3</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
</tbody>
</table>

LEGEND:
EXPOSURE LIMIT DESCRIPTIONS
CA PROP 65
Not Applicable
TSCA
Section 8(b) - Inventory Status
All components of this product are registered under the regulations of the Toxic Substance Control Act.
DOMESTIC SUBSTANCE LIST
All components of this product are found on the Domestic Substance List.

SECTION 16. OTHER INFORMATION

DISCLAIMER
The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, the Company makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.

KEY TO ABBREVIATIONS:
EQ=Equal
AP=Approximately=
LT=Less Than
TR=Trace
GT=Greater Than
ND=No Data available