MATERIAL SAFETY DATA SHEET

Section 1: Chemical Product and Company Information

Identity: 6745 Black Developer
Product ID: 200-0183
MSDS No.: CP-667
Issued: 7/31/00
Supersedes: 02/09/1995
Date: 07/31/2000
Prepared by: EH&S Department, 770-496-9500
Approved by: Larry Choskey, Manager, CEH&S
European Contact: Walter Fricke, Manager, Safety & Environment, Lanier Worldwide, Inc.
Im Taubental D-41468 Neuss, Germany
+49-2131-387-177

Synonyms & Common Names: Developer, Black Developer
Uses: Lanier 6745, 6735 Copier
Chemical Formula: Mixture

Section 2: Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>PERCENT</th>
<th>CAS No.</th>
<th>EXPOSURE LIMITS</th>
<th>SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black</td>
<td>0.5</td>
<td>1333-86-4</td>
<td>3.5mg/m² / 3.5mg/m²</td>
</tr>
<tr>
<td>Styrene acrylate copolymer</td>
<td>5.5</td>
<td>25036-16-2</td>
<td>Not listed</td>
</tr>
<tr>
<td>Iron oxide</td>
<td></td>
<td>1317-61-9</td>
<td>10mg/m² / 5mg/m²</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>94</td>
<td>1314-13-2</td>
<td>10mg/m² / 10mg/m²</td>
</tr>
<tr>
<td>Copper oxide</td>
<td></td>
<td>1317-38-0</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

*PEL as the product: 15mg/m² (total dust), 5mg/m² (respirable dust)
*TLV as the product: 10mg/m² (total dust), 5mg/m² (respirable dust)

Section 3: Hazards Identification

Hazard Rating:
FIRE = 0
REACTIVITY = 0
HEALTH = 0
SPECIAL = none

Health Hazards (Acute, Chronic, Immediate and Potential): Minimum irritation to respiratory tract may occur as with exposure to any non-toxic dust. May cause gasping if inhaled. Inhalation should be avoided. May cause temporary eye discomfort. Health Hazards of Long Term exposure (Chronic): A manufacturer sponsored chronic inhalation study in rats using a special test toner revealed there were no lung changes at all in the lowest exposure level (1mg/m³), the most relevant level to potential human exposures. A very slight degree of fibrosis was noted in 25% of the animals at the middle exposure level (4mg/m³), while a slight degree of fibrosis was observed at the highest exposure level (16mg/m³) in all animals. These findings are attributed to "Lung Overloading", a generic response to excessive amount of any dust retained in the lungs for a prolonged interval. The special test toner was ten times more respirable than commercially available toner to comply with EPA testing protocol and would not function properly in Xerographic equipment.

Section 4: First Aid Measures

Inhalation: Remove to fresh air if effects occur. Consult local medical personnel
Eye Contact: In case of contact, immediately flush eyes with water for 5 minutes.
Skin Contact: Wash with soap and water.
Ingestion: Rinse mouth with water. Call a physician.
Section 5: Fire Fighting Measures
Suitable extinguishing media: CO₂, dry chemical, foam or water.
Extinguishing media which may not be used for safety reasons: none

This material will burn in case of fire. The decomposition products are CO, CO₂, and NOₓ. Avoid inhalation of smoke.
Special protective equipment for fire fighters: none
UEL: n/a
LEL: n/a

Section 6: Accidental Release Measures
Sweep up or clean up with an approved toner vacuum.

Section 7: Handling and Storage
Special Handling: None
Special Storage: No special storage requirements for safety reasons. Store in a cool dry place.

Section 8: Exposure Control and Personal Protection Information:
Respiratory Protection: none required under normal use.
Hand Protection: none required under normal use.
Eye Protection: none required under normal use.
Skin Protection: none required under normal use.

Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>CHARACTERISTICS</th>
<th>150°C</th>
<th>n/a</th>
<th>n/a</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Form:</td>
<td>Fine powder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor:</td>
<td>Practically odorless</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility in Water:</td>
<td>Negligible</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific gravity:</td>
<td>5.6 - 6.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Vapor density:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Boiling point:</td>
<td></td>
<td></td>
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</tbody>
</table>

Section 10: Stability and Reactivity
Conditions to avoid: none
Materials to avoid: none
Stability: Stable

Section 11: Toxicological Information:
Acute oral toxicity (rat) LD₅₀: Over 5.0 g/kg
Ames Test result: Negative
Carcinogenicity: In 1996, the IARC reevaluated carbon black as a GROUP 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at a level that induce particle overload of the lungs. Studies performed in mice have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner and tumor development in rats.
NTP? = No
IARC? = No
OSHA Regulated? = No

Section 12: Environmental / Ecological Information
None

Section 13: Disposal Consideration
Waste material may be dumped or incinerated under conditions, which meet all federal, state and local environmental regulations.

Section 14: Transportation Information
None

Section 15: Regulatory Information
None

Section 16: Miscellaneous Information

*Information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions.*
On the basis of the data available to us, this developer is not a dangerous substance. One should, however, observe the usual precautionary measures for dealing with chemicals.