MATERIAL SAFETY DATA SHEET

PRODUCT CODE NUMBER(S): 3380-5

PRODUCT IDENTIFICATION
Chemical Name and Synonyms: Coomassie Blue G-250; Brilliant blue G250
Chemical Family: Dyes, stains
Chemical Formula: C₄₇H₄₈N₃O₇S₂Na
Product Use: Laboratory reagent
Manufacturer’s Name and Address: Caledon Laboratories Ltd.
40 Armstrong Avenue
Georgetown, Ontario L7G 4R9
Telephone No: (905) 877-0101
Fax No: (905) 877-6666
Emergency Telephone No: CANUTEC (613) 996-6666

HAZARDOUS INGREDIENTS OF MATERIALS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>%</th>
<th>TLV Units</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coomassie Blue G-250</td>
<td>&gt;95</td>
<td>Not established</td>
<td>6104-58-1</td>
</tr>
</tbody>
</table>

PHYSICAL DATA
Physical State: Solid
Odour and Appearance: Dark purple crystalline powder
Odour Threshold (ppm): Not available
Vapour Pressure (mm Hg): Not available
Vapour Density (Air = 1): Not available
Boiling Point (degrees C): Not available
Melting Point (degrees C): Not available
pH: Not available
Specific Gravity: Not available
Coefficient of Water/Oil distribution: Not available

SHIPPING DESCRIPTION
UN: Not regulated
T.D.G. Class: Not regulated
Pkg. Group: Not regulated

REACTIVITY DATA
Chemical Stability: Stable
Incompatibility with other substances: May react with strong oxidizing agents
Reactivity: Avoid excessive heat, ignition sources, generation of dust.
Hazardous Decomposition Products: COₓ, NOₓ, SOₓ

FIRE AND EXPLOSION DATA
Flammability: May be combustible if strongly heated. As with most organic compounds, fine dust dispersed in air in the presence of an ignition source is a potential dust explosion hazard.
Extinguishing Media: Use an extinguisher appropriate to the surrounding material which is burning. Use water as spray or fog to minimize dust. Absorb heat, cool containers, and disperse vapours. Fight fire from upwind, from a safe distance. Firefighters should wear protective equipment, full face-piece positive-pressure self-contained breathing apparatus, and clothing sufficient to prevent inhalation of dust or fumes, and contact with skin and eyes.
Flash Point (Method Used): Not available
Autoignition Temperature: Not available
Upper Flammable Limit (% by volume): Not available
Lower Flammable Limit (% by volume): Not available
Hazardous Combustion Products: COₓ, NOₓ, SOₓ
Sensitivity to Impact: None identified
Sensitivity to Static discharge: As with most organic powders, mixtures of dust with air may be sensitive under certain conditions, when ignited by an electrostatic or other high-voltage spark, or other ignition source.

TOXICOLOGICAL PROPERTIES AND HEALTH DATA
To the best of our knowledge, the physical, chemical and toxicological properties of this substance have not yet been thoroughly investigated.

Toxicological Data:
LD₅₀: Not available
LC₅₀: Not available

Effects of Acute Exposure to Product:
Inhaled: May be mildly irritating to upper respiratory tract, causing sore throat, coughing, shortness of breath. Inhalation of large amounts may be harmful.
In contact with skin: Dust may cause mechanical skin irritation. Concentrated solutions may be irritating, causing redness, itching, temporary pain. Probably not absorbed through skin. May cause staining of skin.
In contact with eyes: May cause temporary mechanical irritation, with redness, tearing, itching and pain.
Ingested: No information available. Ingestion of large amounts may cause gastrointestinal irritation, with nausea, vomiting, diarrhea.

Effects of Chronic Exposure to Product:
Carcinogenicity: No information available
Teratogenicity: No information available
Reproductive Effects: No information available
Mutagenicity: No information available
Synergistic Products: None known
PREVENTIVE MEASURES

Engineering Controls: Local exhaust recommended.
Respiratory Protection: Dust/mist mask. For conditions where dust or mist is present, to the maximum use specified by the respirator supplier. NIOSH approved half-face high-efficiency dust/mist filter respirator, or NIOSH approved full face-piece high-efficiency dust/mist filter respirator. Higher or unknown concentrations, or for fire or spill conditions, self-contained breathing apparatus, or full face-piece, positive-pressure supplied-air respirator.
Eye Protection: Chemical safety glasses. Do not wear contact lenses when working with chemicals.
Skin Protection: Wear protective gloves and clean body-covering clothing, long-sleeved shirt, trousers, apron or lab coat.
Other Personal Protective Equipment: Safety shower and eye-wash fountain in work area.
Leak and Spill Procedure: Ventilate area of spill. Shut off all sources of ignition. Clean-up personnel should wear protective equipment and clothing sufficient to prevent inhalation of dusts or vapours and contact with skin and eyes. Gather up in a manner that does not raise dust (wet if necessary) and place in suitable containers for reclamation or disposal. Flush site of spill thoroughly with copious amounts of water.
Waste Disposal: Follow all federal, provincial and local regulations for disposal.
Handling Procedures and Equipment: COMBUSTIBLE DUST. Workers using this chemical must be properly trained in its hazards and its safe use, and must wear appropriate protective equipment and clothing. Avoid generating dust. If there is dust, keep away from heat, sparks, and all sources of ignition; avoid the accumulation of static charge, use anti-sparking tools and ground and bond equipment and containers. Use the smallest amount possible for the purpose, in a designated area with adequate ventilation. Use good housekeeping to prevent accumulations of dust. Avoid contact with skin and eyes. Avoid inhalation. Wash thoroughly after handling.
Storage Requirements: Store in suitable, labelled containers, in a cool, dry, well ventilated area, away from sources of ignition. Keep containers tightly closed when not in use and when empty. Protect from damage.

FIRST AID MEASURES

Specific Measures:
Eyes: Flush eyes thoroughly with gently running water, holding eyelids open while flushing, for five to ten (5-10) minutes, or until no trace of chemical remains. Get medical attention if irritation develops.
Skin: Remove contaminated clothing. Brush or wipe off dry material. Flush skin with plenty of running water until no evidence of chemical remains. Get medical attention if irritation develops.
Inhalation: Remove to fresh air. Give oxygen and get medical attention for any breathing difficulty.
Ingestion: If victim is alert and NOT convulsing, rinse mouth, give several glasses of water to drink to dilute. If discomfort occurs, or if a large amount has been ingested, get medical attention.

REFERENCES USED
CCINFO disc
Suppliers’ Material Safety Data Sheets

ADDITIONAL INFORMATION
Date Issued: March 4, 1999
Revision: January 2011
MSDS: 3380-5
Proposed Whmis Designation: Not controlled. Not required to be updated every three years (WHMIS 1992, B-40, Section 29.2).

Prepared by: Caledon Laboratories Ltd. (905) 877-0101
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