1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Catalog Number: 195136
Product name: o-DIANISIDINE DIHYDROCHLORIDE

Synonyms: 3,3'-Dimethoxybenzidine dihydrochloride; C.I. Disperse
Black-6-dihydrochloride; 3,3-Dimethoxy-(1,1'-biphenyl)-4,4'-
diamine dihydrochloride

Supplier: MP Biomedicals, LLC
Parc d'Innovation
BP 50067
67402 ILLKIRCH CEDEX
France

Emergency telephone number: "n° ORFILA" (01-45-42-59-59)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Weight %</th>
<th>EC No.</th>
<th>Classification</th>
<th>Notes</th>
<th>Annex No.:</th>
</tr>
</thead>
<tbody>
<tr>
<td>o-DIANISIDINE DIHYDROCHLORIDE</td>
<td>20325-40-0</td>
<td>&gt; 25%</td>
<td>243-737-5</td>
<td>T</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Indication of Danger:

T - Toxic.

Risk Phrases:
R45 - May cause cancer.
R22 - Harmful if swallowed.

Category of Danger:
Toxic, Carc. cat. 2

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water for at least 15 minutes.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician. Drink 1 or 2 glasses of water. Induce vomiting, but only if victim is fully conscious. Induce vomiting if person is conscious.

Eye contact: Flush eye(s) immediately with plenty of water. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam.

Specific hazards: Burning produces irritant fumes.

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Flash point: Not determined
Autoignition temperature: Not determined

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.
Environmental precautions: Prevent product from entering drains.
Methods for cleaning up: Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Storage: ROOM TEMPERATURE

Handling: Use only in area provided with appropriate exhaust ventilation.
Safe handling advice: Wear personal protective equipment. Remove and wash contaminated clothing before reuse.
Technical measures/storage conditions: Keep containers tightly closed in a cool, well-ventilated place. Keep container tightly closed in a dry and well-ventilated place.
Incompatible products: Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation, especially in confined areas.
Respiratory protection: Breathing apparatus needed only when aerosol, vapor or dust is formed.
Skin and body protection: Impervious clothing Long sleeved clothing
Eye protection: Safety glasses with side-shields
Hand protection: Gloves
9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Powder
Formula: C14H16N2O2•2HCl
Molecular weight: 317.21
Melting point/range: >285ºC (dec.)
Boiling point/range: No Data available at this time.
Density: No data available
Vapor pressure: No data available
Evaporation rate: No data available
Vapor density: No data available
Solubility (in water): Soluble
Flash point: Not determined
Autoignition temperature: Not determined

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.
Polymerization: None under normal processing.
Hazardous decomposition products: Nitrogen oxides (NOx)/ammonia/CN-, Chloride/Hydrochloric acid
Materials to avoid: Strong oxidising agents
Conditions to avoid: Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information
Acute toxicity

<table>
<thead>
<tr>
<th>Components</th>
<th>RTECS Number: DD1050000</th>
<th>Selected LD50s and LC50s Oral LD50 Rat: 1920 mg/kg (for free base)</th>
</tr>
</thead>
</table>

Chronic toxicity: Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
Primary irritation: No data is available on the product itself.
Carcinogenic effects: Possible carcinogen
Mutagenic effects: No data is available on the product itself.
Reproductive toxicity: No data is available on the product itself.

12. ECOLOGICAL INFORMATION

Mobility: No data available
Bioaccumulation: No data available
Ecotoxicity effects: No data available
Aquatic toxicity: May cause long-term adverse effects in the aquatic environment.

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. DOT - Appendix B - Marine Pollutant</th>
<th>U.S. DOT - Appendix B - Severe Marine Pollutants</th>
<th>United Kingdom - The Red List:</th>
</tr>
</thead>
<tbody>
<tr>
<td>o-DIANISIDINE DIHYDROCHLORIDE</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>
13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:
Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

Contaminated packaging:
Do not re-use empty containers

14. TRANSPORT INFORMATION

UN/Id No: 3077

ADR/RID
Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
Hazard Class 9
- Other miscellaneous materials
Packing group: III
Classification code: M7
HIN: 13

IMDG/IMO
Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

ICAO/IATA
Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
IATA Hazard Label(s): Miscellaneous
Hazard Class 9
- Other miscellaneous materials
Packing group: III

15. REGULATORY INFORMATION

Contains: o-DIANISIDINE

Catalog Number: 195136
Product name: o-DIANISIDINE DIHYDROCHLORIDE

Page 4 of 5
Classification: 
Indication of Danger: 
T - Toxic.

Risk Phrases: R45 - May cause cancer. 
R22 - Harmful if swallowed.

Safety Phrases: S53 - Avoid exposure - obtain special instructions before use. 
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

<table>
<thead>
<tr>
<th>Components</th>
<th>EU EINECS List -</th>
<th>Germany TA-Luft List -</th>
<th>Germany VCI (WGK)</th>
<th>Switzerland Giftliste:</th>
</tr>
</thead>
<tbody>
<tr>
<td>o-DIANISIDINE DIHYDROCHLORIDE</td>
<td>243-737-5; C14H16N2O2.2ClH</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

Classification according to VbF:

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of Safety Data Sheet