Material Safety Data Sheet
OASIS 137 ORANGE FORCE

Section 1. Chemical product and company identification

Trade name: OASIS 137 ORANGE FORCE
Product use: All Purpose Cleaner
Supplier: Ecolab Co.
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326

Code: 905215
Date of issue: 09-February-2007

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Composition, information on ingredients

Name | CAS number | % by weight
--- | --- | ---
sodium dodecylbenzene sulfonate | 25155-30-0 | 3 - 7
benzenesulfonic acid, dodecyl-, compd. with 2,2',2'-nitrilotriethanol | 27323-41-7 | 3 - 7
poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, c10-16-alkyl ethers, sodium salts | 68585-34-2 | 1 - 5
(−)-p-mentha-1,8-diene | 5989-27-5 | 0.5 - 1.5
ethanol | 64-17-5 | 0.1 - 1

Section 3. Hazards identification

Physical state: Liquid. (Liquid.)
Emergency overview: CAUTION!
- MAY CAUSE ALLERGIC SKIN REACTION.
- MAY CAUSE EYE IRRITATION.
- Repeated or prolonged contact with irritants may cause dermatitis.
- Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Routes of entry
- Skin contact, Eye contact, Inhalation, Ingestion

Potential acute health effects
- Eyes: Moderately irritating to eyes.
- Skin: Slightly irritating to the skin. May cause sensitisation by skin contact.
- Inhalation: Slightly irritating to the respiratory system.
- Ingestion: No known significant effects or critical hazards.

See toxicological information (section 11)

Section 4. First-aid measures

Eye contact: In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

Skin Contact: Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation: If inhaled, remove to fresh air.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.
Section 5. Fire-fighting measures

Auto-ignition temperature : Not available.
Flash point : > 100°C
Flammable limits
  Upper: Not available.
  Lower: Not available.
Products of combustion : These products are halogenated compounds, hydrogen chloride.
Fire-fighting media and
instructions
  Dyke liquid for later disposal.
  No specific hazard.
Special protective equipment
for fire-fighters
  Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Risk of explosion of the product in the presence of mechanical impact: Not available.
Risk of explosion of the product in the presence of static discharge: Not available.

Section 6. Accidental release measures

Personal Precautions : Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Do not allow to enter drains or watercourses.
Environmental precautions
Methods for cleaning up
  If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dyke spill material or otherwise contain material to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

Section 7. Handling and storage

Handling : Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Wash thoroughly after handling.
Storage
  Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.
  Do not store below the following temperature: 0°C

Section 8. Exposure controls, personal protection

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection:
  Eyes : Eye protection recommended.
  Hands : Use chemical-resistant, impervious gloves.
  Skin : Use suitable protective equipment.
  Respiratory : A respirator is not needed under normal and intended conditions of product use.

Name
  ethanol

Exposure limits
  ACGIH TLV (United States, 1/2006).
  TWA: 1880 mg/m³ 8 hour(s). Form: All forms
  TWA: 1000 ppm 8 hour(s). Form: All forms
Section 9. Physical and chemical properties

Physical state : Liquid. (Liquid.)
Colour : Orange. (Dark.)
Odour : citrus
pH : 7.2 to 9 (100%)
Boiling/condensation point : Not available.
Melting/freezing point : Not available.
Specific gravity : 1.021 (Water = 1)
Vapour pressure : Not applicable.
Vapour density : Not available.
Odour threshold : Not available.
Evaporation rate : Not available.
LogK\text{ow} : Not available.

Section 10. Stability and reactivity

Stability : The product is stable.
Conditions of instability : Not available.
Reactivity : Not available.
Hazardous Decomposition Products : These products are halogenated compounds, hydrogen chloride.

Section 11. Toxicological information

Potential acute health effects

Eyes : Moderately irritating to eyes.
Skin : Slightly irritating to the skin. May cause sensitisation by skin contact.
Inhalation : Slightly irritating to the respiratory system.
Ingestion : No known significant effects or critical hazards.
Irritancy of Product : Hazardous by WHMIS criteria.

Potential chronic health effects

Carcinogenic effects : No known significant effects or critical hazards.
Mutagenic effects : No known significant effects or critical hazards.
Teratogenic effects : No known significant effects or critical hazards.
Reproductive effects : No known significant effects or critical hazards.
Sensitization to Product : May cause sensitisation by skin contact.
Synergistic products (toxicologically) : Not available.

Toxicity data

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Test</th>
<th>Route</th>
<th>Result</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium dodecylbenzene sulfonate</td>
<td>LD50</td>
<td>Oral</td>
<td>438 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>Oral</td>
<td>1330 mg/kg</td>
<td>Mouse</td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>Dermal</td>
<td>&gt;23220 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td>benzenesulfonic acid, dodecyl-, compd. with 2,2',2''-nitrilotriethanol</td>
<td>LD50</td>
<td>Oral</td>
<td>&gt;10800 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>Oral</td>
<td>7 g/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>Oral</td>
<td>6300 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>Oral</td>
<td>3450 mg/kg</td>
<td>Mouse</td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>Oral</td>
<td>7060 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td>ethanol</td>
<td>LD50</td>
<td>Oral</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Target organs : Contains material which causes damage to the following organs: skin, eye, lens or cornea.
Section 12. Ecological information

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>Species</th>
<th>Period</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium dodecylbenzene sulfonate</td>
<td>Daphnia</td>
<td>48 hours</td>
<td>Acute EC50 5.88 mg/L</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>96 hours</td>
<td>Acute LC50 6.5 mg/L</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>96 hours</td>
<td>Acute LC50 1.68 mg/L</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>96 hours</td>
<td>Acute LC50 1.18 mg/L</td>
</tr>
<tr>
<td>(r)-p-mentha-1,8-diene</td>
<td>Daphnia</td>
<td>48 hours</td>
<td>Acute EC50 69.6 mg/L</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>96 hours</td>
<td>Acute LC50 0.702 mg/L</td>
</tr>
<tr>
<td>Ethanol</td>
<td>Daphnia</td>
<td>48 hours</td>
<td>Acute EC50 &gt; 100 mg/L</td>
</tr>
<tr>
<td></td>
<td>Daphnia</td>
<td>48 hours</td>
<td>Acute EC50 9.3 mg/L</td>
</tr>
<tr>
<td></td>
<td>Daphnia</td>
<td>48 hours</td>
<td>Acute EC50 2 mg/L</td>
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<tr>
<td></td>
<td>Fish</td>
<td>96 hours</td>
<td>Acute LC50 13000 mg/L</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>96 hours</td>
<td>Acute LC50 &gt; 100 mg/L</td>
</tr>
</tbody>
</table>

Section 13. Disposal considerations

Waste disposal: The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

Section 14. Transport information

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Class</th>
<th>Packing group</th>
<th>Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDG Classification</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

APPLIES ONLY DURING ROAD TRANSPORT
Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

WHMIS: Class D-2B: Material causing other toxic effects (Toxic).
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16. Other information

Date of issue: 09-February-2007.
Responsible name: Regulatory Affairs
Date of previous issue: 14-November-2005.

Notice to reader
The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.