

5/9/08

ECOLAB

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

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
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
(r)-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 : Use an extinguishing agent suitable for the surrounding fire.
 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 : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
 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 spilt 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 _{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

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

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

Section 12. Ecological information

Ecotoxicity

Ingredient name	Species	Period	Result
sodium dodecylbenzene sulfonate	Daphnia	48 hours	Acute EC50 5.88 mg/L
	Fish	96 hours	Acute LC50 6.5 mg/L
(r)-p-mentha-1,8-diene	Fish	96 hours	Acute LC50 1.68 mg/L
	Fish	96 hours	Acute LC50 1.18 mg/L
	Daphnia	48 hours	Acute EC50 69.6 mg/L
	Fish	96 hours	Acute LC50 0.702 mg/L
ethanol	Daphnia	48 hours	Acute EC50 >100 mg/L
	Daphnia	48 hours	Acute EC50 9.3 mg/L
	Daphnia	48 hours	Acute EC50 2 mg/L
	Fish	96 hours	Acute LC50 13000 mg/L
	Fish	96 hours	Acute LC50 >100 mg/L
	Daphnia	96 hours	Acute LC50 >100 mg/L

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt 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

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
TDG Classification	Not regulated.	-	-	-	-

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.