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 03-February-2010

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

Section 2. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency : CAUTION!

overview

MAY CAUSE EYE IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

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 3. Composition/information on ingredients

<u>Name</u>	CAS number	% by weight
SODIUM DODECYLBENZENESULFONATE	25155-30-0	3 - 7
TEA-DODECYLBENZENESULFONATE	27323-41-7	3 - 7
poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, c10-16-alkyl ethers, sodium salts	68585-34-2	1 - 5
Limonene	5989-27-5	0.5 - 1.5
ALCOHOL	64-17-5	0.1 - 1

Section 4. First-aid measures

Eye contact: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and

flush again. Get medical attention if irritation persists.

Skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. 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.

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Section 5. Fire-fighting measures

Auto-ignition temperature : Not available. Flash point > 100°C

Flammable limits : Not available. **Hazardous thermal** : Decomposition products may include the following materials:

> carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

halogenated compounds metal oxide/oxides

Fire-fighting media and

decomposition products

instructions

: Use an extinguishing agent suitable for the surrounding fire.

Dyke area of fire to prevent runoff.

In a fire or if heated, a pressure increase will occur and the container may

burst.

fire-fighters

Special protective equipment for: Fire-fighters should wear appropriate protective equipment and self-contained

breathing apparatus (SCBA) with a full face-piece operated in positive pressure

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 : Use suitable protective equipment (section 8). 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. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

Methods for cleaning up

: 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 it to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

Section 7. Handling and storage

Handling

: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage

: Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.

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:

: Eye protection recommended. **Eyes**

Hands : Use chemical-resistant, impervious gloves.

: Use suitable protective equipment. Skin

: A respirator is not needed under normal and intended conditions of product use. Respiratory

Exposure limits <u>Name</u>

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ALCOHOL CA Alberta Provincial (Canada, 4/2009).

> 8 hrs OEL: 1880 mg/m³ 8 hour(s). 8 hrs OEL: 1000 ppm 8 hour(s).

CA Ontario Provincial (Canada, 8/2008).

TWAEV: 1900 mg/m³ 8 hour(s). TWAEV: 1000 ppm 8 hour(s).

CA Quebec Provincial (Canada, 6/2008).

TWAEV: 1880 mg/m3 8 hour(s). TWAEV: 1000 ppm 8 hour(s).

CA British Columbia Provincial (Canada, 7/2009).

STEL: 1000 ppm 15 minute(s). ACGIH TLV (United States, 1/2009). STEL: 1000 ppm 15 minute(s).

Section 9. Physical and chemical properties

Physical state : Liquid. [Liquid.] Colour Orange. [Dark]

Odour : citrus

pΗ : 7.2 to 9 [Conc. (% w/w): 100%]

Boiling/condensation point : Not available. Melting/freezing point : Not available. Relative density : 1.006 to 1.036 Vapour pressure : Not available. Vapour density : Not available. Odour threshold : Not available. **Evaporation rate** : Not available. LogK_{ow} : Not available.

Section 10. Stability and reactivity

The product is stable. Under normal conditions of storage and use, hazardous Stability

polymerisation will not occur.

Conditions of instability : Not available.

Reactivity : Not available. **Hazardous decomposition** Under normal conditions of storage and use, hazardous decomposition products

products should not be produced.

Hazardous polymerisation : Under normal conditions of storage and use, hazardous polymerisation will not

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. : No known significant effects or critical hazards. Ingestion

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.

: May cause sensitisation by skin contact. Sensitization to Product

Synergistic products	: Not available.
(toxicologically)	

Toxicity data

Ingredient name	<u>Test</u>	Route	<u>Result</u>	<u>Species</u>
sodium dodecylbenzene sulfonate	LD50	Oral	1330 mg/kg	Mouse
	LD50	Oral	438 mg/kg	Rat
benzenesulfonic acid, dodecyl-, compd. with 2,2',2"-nitrilotriethanol	LD50	Dermal	>23220 mg/kg	Rabbit
	LD50	Oral	>10800 mg/kg	Rat
(r)-p-mentha-1,8-diene	LD50	Dermal	>5 g/kg	Rabbit
	LD50	Dermal	>5 g/kg	Mammal - species unspecified
	LD50	Oral	5600 mg/kg	Mouse
	LD50	Oral	4400 mg/kg	Rat
ethanol	LD50	Oral	7 g/kg	Rat
	LD50	Oral	6300 mg/kg	Rabbit
	LD50	Oral	5560 mg/kg	Guinea pig
	LD50	Oral	3450 mg/kg	Mouse
	LDLo	Dermal	20 g/kg	Rabbit
	LDLo	Oral	6 g/kg	Cat
	LDLo	Oral	5500 mg/kg	Dog
	LDLo	Oral	1400 mg/kg	Human
	LC50	Inhalation	20000 ppm	Rat

Other adverse effects

Target organs : Not available.

Section 12. Ecological information

Ecotoxicity			
Ingredient name	<u>Species</u>	<u>Period</u>	<u>Result</u>
sodium dodecylbenzene sulfonate	Daphnia - Water flea - Neonate - <24 hours	48 hours	Acute EC50 7.81 to 14.51 mg/L Fresh water
	Daphnia - Water flea	48 hours	Acute EC50 5.88 ppm Fresh water
	Daphnia - Water flea - Neonate - <24 hours	48 hours	Acute LC50 9.546 to 9.6 mg/L Fresh water
	Fish - Rainbow trout,donaldson trout	96 hours	Acute LC50 1.68 ppm Fresh water
	Fish - Bluegill	96 hours	Acute LC50 1.18 ppm Fresh water
	Daphnia - Water flea	48 hours	Acute LC50 19870 ug/L Fresh water
	Fish - Catfish - 12 to 16 cm	96 hours	Acute LC50 7160 ug/L Fresh water
	Fish - Catfish - 12 to 16 cm	96 hours	Acute LC50 7079 to 7638 ug/L Fresh water
	Fish - Catfish - 12 to 16 cm	96 hours	Acute LC50 6969 to 7614 ug/L Fresh water
	Fish - Catfish - 12 to 16 cm	96 hours	Acute LC50 6926 to 7346 ug/L Fresh water
	Fish - Catfish - 12 to 16 cm	96 hours	Acute LC50 6900 ug/L Fresh water
	Fish - Bluegill - Young of the year	96 hours	Acute LC50 6500 ug/L Fresh water
	Fish - Rainbow trout,donaldson trout - Juvenile (Fledgling, Hatchling, Weanling)	96 hours	Acute LC50 3200 to 5600 ug/L Fresh water
(r)-p-mentha-1,8-diene	Daphnia	48 hours	Acute EC50 69.6 mg/L

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	Daphnia - Water flea - Daphnia pulex - Neonate - <24 hours	48 hours	Acute EC50 69600 ug/L Fresh water
	Fish	96 hours	Acute LC50 0.702 mg/L
	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	4 days	Acute LC50 35000 ug/L Fresh water
	Fish - Fathead minnow - Pimephales promelas - 3234 days - 21.8 mm - 0.177 g	96 hours	Acute LC50 702 to 796 ug/L Fresh water
ethanol	Fish	96 hours	Acute LC50 13000 mg/L
	Fish	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

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

UN Classification Not regulated.

See shipping documents for specific transportation information.

Section 15. Regulatory information

WHMIS: Class D-2B: Material causing other toxic effects (Toxic).

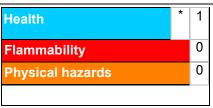
Canada inventory : At least one component is not listed in DSL but all such components are listed in

NDSL.

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

Hazardous Material Information System (U.S.A.)



Date of issue : 03-February-2010.
Responsible name : Regulatory Affairs

1-800-352-5326 : 09-February-2007.

Date of previous issue

Notice to reader

Section 16. Other information

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.