

54-61166825

Material Safety Data Sheet

ECOLAB®

QC 51 GENERAL PURPOSE CLEANER (NPE-FREE)

Section 1. Chemical product and company identification

Trade name : QC 51 GENERAL PURPOSE CLEANER (NPE-FREE)
 Product use : Cleaning product
 Supplier : Ecolab Co.
 5105 Tomken Road
 Mississauga ON L4W 2X5
 1-800-352-5326
 Code : 903546
 Date of issue : 14-January-2009

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
2-butoxyethanol	111-76-2	15 - 40
alcohols, c10-14, ethoxylated	66455-15-0	10 - 30

Section 3. Hazards identification

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

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Avoid contact with eyes, skin and clothing. Avoid breathing vapours, spray or mists. Use only with adequate ventilation. Keep container closed. Wash thoroughly after handling.

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

Potential acute health effects

Eyes : Moderately irritating to eyes.
 Skin : Moderately irritating to the skin.
 Inhalation : Moderately 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 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. Remove contaminated clothing and shoes. Get medical attention if irritation persists. 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 : >93.3 °C (Closed cup)
 Flammable limits : Not available.
 Hazardous thermal decomposition products : Decomposition products may include the following materials:
 carbon dioxide
 carbon monoxide
 metal oxide/oxides

- Fire hazards in the presence of various substances** : Because of the large amount of water contained in the product, it may be combustible only after partial or complete dehydration.
- Fire-fighting media and 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.

- 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** : 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. Avoid breathing vapours, spray or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
- Storage** : Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.
Store between the following temperatures: 15 and 45°C

Section 8. Exposure controls/personal protection

- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protection :

- Eyes** : Eye protection recommended
- Hands** : Use chemical-resistant, impervious gloves.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : Avoid breathing vapours, spray or mists.

Name

2-butoxyethanol

Exposure limits

CA Alberta Provincial (Canada, 6/2008). Absorbed through skin.

8 hrs OEL: 97 mg/m³ 8 hour(s).

8 hrs OEL: 20 ppm 8 hour(s).

CA British Columbia Provincial (Canada, 6/2008).

TWA: 20 ppm 8 hour(s).

CA Ontario Provincial (Canada, 6/2008). Absorbed through skin.

TWAEV: 20 ppm 8 hour(s).

CA Quebec Provincial (Canada, 6/2008).

TWAEV: 97 mg/m³ 8 hour(s).

TWAEV: 20 ppm 8 hour(s).

ACGIH TLV (United States, 1/2008).

TWA: 20 ppm 8 hour(s).

Section 9. Physical and chemical properties

Physical state	: Liquid. [Liquid.]
Colour	: Purple. [Light]
Odour	: Fragrance-like. [Slight]
pH	: 7.2 [Conc. (% w/w): 100%]
Boiling/condensation point	: Not available.
Melting/freezing point	: Not available.
Relative density	: 0.98
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

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions of instability	: Not available.
Reactivity	: Slightly reactive or incompatible with the following materials: acids.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerisation	: Under normal conditions of storage and use, hazardous polymerisation will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes	: Moderately irritating to eyes.
Skin	: Moderately irritating to the skin.
Inhalation	: Moderately irritating to the respiratory system.
Ingestion	: No known significant effects or critical hazards.

Potential chronic health effects

Carcinogenic effects	: No known significant effects or critical hazards.
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<u>Ingredient name</u>	<u>ACGIH</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
Not applicable.				

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	: No known significant effects or critical hazards.
Synergistic products (toxicologically)	: Not available.

Toxicity data

<u>Ingredient name</u>	<u>Test</u>	<u>Route</u>	<u>Result</u>	<u>Species</u>
2-butoxyethanol	LD50	Dermal	230 uL/kg	Guinea pig
	LD50	Oral	320 mg/kg	Rabbit
	LD50	Oral	250 mg/kg	Rat
	LC50	Inhalation	2900 mg/m3	Rat
	LC50	Inhalation	450 ppm	Rat

Target organs	: Contains material which may cause damage to the following organs: blood, kidneys, liver, lymphatic system, upper respiratory tract, central nervous system (CNS).
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Section 12. Ecological information

Ecotoxicity

Ingredient name

2-butoxyethanol

Species

Fish

Period

96 hours

Result

Acute LC50 1490 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).

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 : 14-January-2009.

Responsible name : Regulatory Affairs
1-800-352-5326

Date of previous issue : 16-January-2006.

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.