Material Safety Data Sheet

BRIGHT SPEED (QC)

Section 1. Chemical product and company identification

Trade name : BRIGHT SPEED (QC)
Product use : Floor care product
Supplier : Ecolab Co.
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326
Code : 912388
Date of issue **13-April-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-aminoethanol	141-43-5	5- 10
Alkoxylated alcohol.	HMIRC 6652	Trade secret.
xylenesulfonic acid, sodium salt	1300-72-7	1 - 5

Claim for exemption granted: March 31, 2009

Section 3. Hazards identification

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

CAUSES SEVERE EYE AND SKIN IRRITATION. Untreated contact may cause severe irritation or chemical burns.
CAUSES RESPIRATORY TRACT IRRITATION.
May cause burns to mouth, throat and stomach.

Do not ingest. Do not get in eyes, on skin or on 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 : Severely irritating to eyes. Untreated contact may cause chemical burns.
Skin : Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
Inhalation : Irritating to respiratory system.
Ingestion : May cause burns to mouth, throat and stomach.

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 15 - 30 minutes. Get medical attention immediately.
Skin contact : In case of contact, immediately flush skin with plenty of water for 15 - 30 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation : If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention if irritation persists.
Ingestion : If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire-fighting measures

Auto-ignition temperature : Not available.

Flash point : > 100°C
Product does not support combustion.

Flammable limits : Not available.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
metal oxide/oxides

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 : Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilt material.

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

Section 7. Handling and storage

Handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Avoid breathing vapours, spray or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Storage : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.
Store between the following temperatures: 10 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. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Personal protection :

Eyes : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

Hands : Use chemical-resistant, impervious gloves.

Skin : Wear suitable protective clothing.

Respiratory : Avoid breathing vapours, spray or mists.

Name	Exposure limits

2-aminoethanol

CA Alberta Provincial (Canada, 6/2008).
15 min OEL: 15 mg/m³ 15 minute(s).
15 min OEL: 6 ppm 15 minute(s).
8 hrs OEL: 7.5 mg/m³ 8 hour(s).
8 hrs OEL: 3 ppm 8 hour(s).
CA British Columbia Provincial (Canada, 6/2008).
STEL: 6 ppm 15 minute(s).
TWA: 3 ppm 8 hour(s).
CA Ontario Provincial (Canada, 6/2008).
STEV: 15 mg/m³ 15 minute(s).
STEV: 6 ppm 15 minute(s).
TWAEV: 7.5 mg/m³ 8 hour(s).
TWAEV: 3 ppm 8 hour(s).
CA Quebec Provincial (Canada, 6/2008).
STEV: 15 mg/m³ 15 minute(s).
STEV: 6 ppm 15 minute(s).
TWAEV: 7.5 mg/m³ 8 hour(s).
TWAEV: 3 ppm 8 hour(s).

ACGIH TLV (United States, 1/2008).
STEL: 15 mg/m³ 15 minute(s).
STEL: 6 ppm 15 minute(s).
TWA: 7.5 mg/m³ 8 hour(s).
TWA: 3 ppm 8 hour(s).

Section 9. Physical and chemical properties

Physical state : Liquid. [Liquid.]
Colour : Green. [Dark]
Odour : Fruity.
pH : 12.9 [Conc. (% w/w): 100%]
Boiling/condensation point : >100°C (>212°F)
Melting/freezing point : Not available.
Relative density : 1.031
Vapour pressure : Not available.
Vapour density : Not available.
Odour threshold : Not available.
Evaporation rate : Not available.
LogK_{ow} : Not available.
Dispersibility properties : Easily dispersible in the following materials: cold water and hot water.
Solubility : Easily soluble in the following materials: cold water and hot water.

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 : Highly reactive or incompatible with the following materials: acids.
Slightly reactive or incompatible with the following materials: metals.
Hazardous decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
Hazardous polymerisation : Under normal conditions of storage and use, hazardous polymerisation will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes : Severely irritating to eyes. Untreated contact may cause chemical burns.

Skin : Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.

Inhalation : Irritating to respiratory system.

Ingestion : May cause burns to mouth, throat and stomach.

Potential chronic health effects

Carcinogenic effects : No known significant effects or critical hazards.

Ingredient name	ACGIH	IARC	NTP	OSHA
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

Ingredient name	Test	Route	Result	Species
2-aminoethanol	LD50	Dermal	1 mL/kg	Rabbit
	LD50	Dermal	1020 mg/kg	Rabbit
	LD50	Oral	700 mg/kg	Mouse
	LD50	Oral	1 g/kg	Rabbit
	LD50	Oral	1720 mg/kg	Rat
	LD50	Oral	620 mg/kg	Guinea pig

Target organs : Contains material which causes damage to the following organs: kidneys, liver. Contains material which may cause damage to the following organs: upper respiratory tract, central nervous system (CNS).

Section 12. Ecological information

Ecotoxicity

Ingredient name	Species	Period	Result
2-aminoethanol	Fish	96 hours	Acute LC50 2070 mg/L
	Fish	96 hours	Acute LC50 329.16 mg/L
	Fish	96 hours	Acute LC50 300 mg/L
	Fish	96 hours	Acute LC50 >300 mg/L
	Fish	96 hours	Acute LC50 >200 mg/L
	Fish	96 hours	Acute LC50 150 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

UN number	UN2491
Proper shipping name	ETHANOLAMINE SOLUTION
Class	8
Packing group	III

See shipping documents for specific transportation information.

Section 15. Regulatory information

WHMIS **:** Class E: Corrosive material

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 **: 13-April-2009.**

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

Date of previous issue **: 23-June-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.