

Material Safety Data Sheet



BRIGHT SPEED

Section 1. Chemical product and company identification

Trade name : BRIGHT SPEED
Product use : Floor Cleaner
Supplier : Ecolab Co.
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326
Code : 910682-01
Date of issue : 01-October-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 % by weight</u>	
2-aminoethanol	141-43-5	10 - 30
Alkoxylated alcohol.	HMIRC 6152	Trade secret.
silicic acid, sodium salt	1344-09-8	1 - 5
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	64-02-8	1 - 5
sodium hydroxide	1310-73-2	1 - 5

Date Granted: July 28, 2007

Section 3. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency overview : DANGER!
CAUSES EYE AND SKIN BURNS.
CAUSES SEVERE RESPIRATORY TRACT IRRITATION.
HARMFUL IF SWALLOWED.
Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion
Potential acute health effects
Eyes : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : Severely irritating to the respiratory system.
Ingestion : Harmful if swallowed. Causes 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. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
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 immediately.
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. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.

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	: carbon oxides (CO, CO ₂), sulphur oxides (SO ₂ , SO ₃ , etc.), nitrogen oxides (NO, NO ₂ etc.)
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. 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 material 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. Keep container closed. Use only with adequate ventilation. Do not breathe vapour or mist. 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: 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 eyewash and safety shower in area if contact or splash hazard exists.
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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	: Use synthetic apron, other protective equipment as necessary to prevent skin contact.
Respiratory	: Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.

<u>Name</u>	<u>Exposure limits</u>
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2-aminoethanol

ACGIH TLV (United States, 1/2006).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).

sodium hydroxide

ACGIH TLV (United States, 1/2006).CEIL: 2 mg/m³

Section 9. Physical and chemical properties

Physical state	: Liquid. [Liquid.]
Colour	: Green. [Dark]
Odour	: Fruity.
pH	: 13.3 [Conc. (% w/w): 100%]
Boiling/condensation point	: Not available.
Melting/freezing point	: Not available.
Specific gravity	: 1.073
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.
Conditions of instability	: Not available.
Reactivity	: Highly reactive with acids. Slightly reactive to reactive with metals.
Hazardous Decomposition Products	: carbon oxides (CO, CO ₂), sulphur oxides (SO ₂ , SO ₃ , etc.), nitrogen oxides (NO, NO ₂ etc.)

Section 11. Toxicological information

Potential acute health effects

Eyes	: Corrosive to eyes.
Skin	: Corrosive to the skin.
Inhalation	: Severely irritating to the respiratory system.
Ingestion	: Harmful if swallowed. Causes burns to mouth, throat and stomach.
Irritancy of Product	: Hazardous by WHMIS criteria.

Potential chronic health effects

Carcinogenic effects	: No known significant effects or critical hazards.
Mutagenic effects	: Mutagenic for bacteria and/or yeast. Not hazardous by WHMIS criteria.
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-aminoethanol	LD50	Dermal	1018 mg/kg	Rabbit
	LD50	Oral	1 g/kg	Rabbit
	LD50	Oral	700 mg/kg	Mouse
	LD50	Oral	1720 mg/kg	Rat
silicic acid, sodium salt	LD50	Dermal	>4640 mg/kg	Rabbit
	LD50	Oral	1960 mg/kg	Rat
sodium hydroxide	LD50	Dermal	>2000 mg/kg	Rabbit
	LD50	Dermal	1350 mg/kg	Rabbit

	LD50	Oral	500 mg/kg	Rabbit
	LD50	Oral	300 to 500 mg/kg	Rat
	LD50	Oral	2000 mg/kg	Rat
	LDLo	Oral	500 mg/kg	Rabbit
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	LD50	Oral	10 g/kg	Rat
	LD50	Oral	7 g/kg	Rabbit

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

Section 12. Ecological information

Ecotoxicity

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
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
silicic acid, sodium salt	Fish	96 hours	Acute LC50 150 mg/L
	Daphnia	48 hours	Acute EC50 4857 mg/L
	Fish	96 hours	Acute LC50 3185 mg/L
sodium hydroxide	Fish	96 hours	Acute LC50 2320 mg/L
	Daphnia	48 hours	Acute EC50 156 mg/L
	Daphnia	48 hours	Acute EC50 45.4 mg/L
	Daphnia	48 hours	Acute EC50 40 mg/L
	Fish	96 hours	Acute LC50 189 mg/L
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	Fish	96 hours	Acute LC50 72 mg/L
	Fish	96 hours	Acute LC50 3092 mg/L
	Fish	96 hours	Acute LC50 2070 mg/L
	Fish	96 hours	Acute LC50 1030 mg/L
	Fish	96 hours	Acute LC50 486 mg/L

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spill 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	UN3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Monoethanolamine)	8	II	<u>Passenger Carrying Road or Rail Index</u> 1 <u>Special provisions</u> 16

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

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 : 01-October-2007.

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

Date of previous issue : 31-March-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.