

Material Safety Data Sheet



SOLID BRILLIANCE

Section 1. Chemical product and company identification

Trade name : SOLID BRILLIANCE
Product use : Rinse Additive
Supplier : Ecolab Co.
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326
Code : 913574
Date of issue : 21-October-2008

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>
urea	57-13-6	10 - 30
alcohols, c12-15, ethoxylated	68131-39-5	1 - 5
propylene glycol	57-55-6	1 - 5

Section 3. Hazards identification

Physical state : Solid. [Cast Solid]
Emergency overview : CAUTION !

CAUSES EYE AND SKIN IRRITATION.

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

Routes of entry : Skin contact, Eye contact, Ingestion

Potential acute health effects

Eyes : Irritating to eyes.

Skin : Irritating to skin.

Inhalation : No known significant effects or critical hazards.

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 : In case of contact, immediately flush skin with plenty of water. Continue to rinse for at least 10 minutes. 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 : > 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
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.
Dyke area of fire to prevent runoff.
- No specific fire or explosion 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** : 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** : Use a tool to scoop up solid or absorbed material and place into appropriate labelled waste container.

Section 7. Handling and storage

- Handling** : Avoid contact with eyes, skin and clothing. Avoid breathing dust. 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 above the following temperature: 50°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** : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Hands** : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Skin** : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Respiratory** : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Name

propylene glycol

Exposure limits

CA Ontario Provincial (Canada, 3/2007).

TWAEV: 10 mg/m³ 8 hour(s). Form: aerosol

TWAEV: 155 mg/m³ 8 hour(s). Form: total vapour and aerosol

TWAEV: 50 ppm 8 hour(s). Form: total vapour and aerosol

Section 9. Physical and chemical properties

- Physical state** : Solid. [Cast Solid]
- Colour** : Green. [Dark]
- Odour** : Odourless.
- pH** : 6.5 to 7.5 [Conc. (% w/w): 1%]
- Boiling/condensation point** : Not available.
- Melting/freezing point** : Not available.

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	: Reactive or incompatible with the following materials: oxidizing materials.
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	: Irritating to eyes.
Skin	: Irritating to skin.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Potential chronic health effects

Carcinogenic effects : No known significant effects or critical hazards.

<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>
urea	LD50	Oral	11 gm/kg	Mouse
	LD50	Oral	8471 mg/kg	Rat
propylene glycol	LD50	Dermal	20800 mg/kg	Rabbit
	LD50	Oral	18500 mg/kg	Rabbit
	LD50	Oral	20300 mg/kg	Mouse
	LD50	Oral	20 gm/kg	Rat
alcohols, c12-15, ethoxylated	LD50	Dermal	>2000 mg/kg	Rabbit
	LD50	Oral	>2000 mg/kg	Rat
	LD50	Oral	2 gm/kg	Rat

Target organs : Not available.

Section 12. Ecological information

Ecotoxicity

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
urea	Daphnia	48 hours	Acute EC50 3910 mg/L
	Fish	96 hours	Acute LC50 17500 mg/L
propylene glycol	Daphnia	48 hours	Acute EC50 >10000 mg/L
	Fish	96 hours	Acute LC50 55770 mg/L
	Fish	96 hours	Acute LC50 >62000 mg/L
	Fish	96 hours	Acute LC50 710 mg/L
alcohols, c12-15, ethoxylated	Daphnia	48 hours	Acute EC50 1.4 mg/L
	Daphnia	48 hours	Acute EC50 1.3 mg/L
	Fish	96 hours	Acute LC50 1.58 mg/L
	Fish	96 hours	Acute LC50 1.4 mg/L
	Fish	96 hours	Acute LC50 1.16 mg/L
	Fish	96 hours	Acute LC50 1.03 mg/L
	Fish	96 hours	Acute LC50 1.03 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 : 21-October-2008.
Responsible name : Regulatory Affairs
 1-800-352-5326
Date of previous issue : 17-December-2007.
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.**