

Material Safety Data Sheet

BLUE BRITE



1. Identification of the material and supplier

Trade name of product : BLUE BRITE
ADG : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (disodium metasilicate)
Supplier : ECOLAB PTY LTD (A.B.N. 59 000 449 990)
6 Hudson Ave, Castle Hill NSW 2154
Customer Service phone: 1 800 022 002
Free Fax Number: 1 800 655 679

Emergency telephone number : 1 800 124 170

Material uses : Laundry detergent

Product dilution information : Use up to 0.3% in water

Date of issue : 27 January 2012

2. Hazards identification

	Product AS SOLD	Product AT USE DILUTION
Statement of hazardous/dangerous nature	: Classified as hazardous according to the criteria of Safe Work Australia and classified as dangerous goods according to the ADG Code.	Not classified as hazardous according to the criteria of Safe Work Australia nor classified as dangerous goods according to the ADG Code.
Classification	: C - Corrosive	Not applicable.
Risk phrases	: R34- Causes burns. R41- Risk of serious damage to eyes.	Not classified.
Safety phrases	: S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of water. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S61- Avoid release to the environment. Refer to special instructions/safety data sheet.	Not applicable.

3. Composition/information on ingredients

Product AS SOLD

Ingredient name	CAS number	Concentration % (w/w)
disodium metasilicate	6834-92-0	<10
dodecylbenzenesulfonic acid	27176-87-0	<10
alcohols, c12-15, ethoxylated	68131-39-5	<10
sulphuric acid	7664-93-9	<10

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

Product AT USE DILUTION

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4. First-aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.	Rinse with plenty of running water. Get medical attention if symptoms occur.
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 immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse.
Inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.	Remove to fresh air. Get medical attention if symptoms occur.
Ingestion	: Do not induce vomiting. Rinse mouth; then drink one or two large glasses of water. Contact a doctor or a Poisons Information Centre (Phone: 13 11 26). 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.	Do not induce vomiting. Rinse mouth; then drink one or two large glasses of water. Contact a doctor or a Poisons Information Centre (Phone: 13 11 26).
Notes to physician	: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.	No specific treatment. Treat symptomatically.

5. Fire-fighting measures

	Product AS SOLD
Hazchem code	: 2X
Extinguishing media	: Use dry chemical powder.
Fire-fighting media and instructions	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Fire/explosion hazards	: 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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides

6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
Personal precautions	: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
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).	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).

6. Accidental release measures

<p>Methods for cleaning up</p>	<p>: Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.</p>	<p>Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.</p>
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Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

<p>Handling</p>	<p>Product AS SOLD</p> <p>: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.</p>	<p>Product AT USE DILUTION</p> <p>Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.</p>
<p>Storage</p>	<p>: Store in a well-ventilated, dry place. Protect from moisture.</p>	<p>Keep container tightly closed. Keep container in a cool, well-ventilated area.</p>

8. Exposure controls/personal protection

Product AS SOLD

Occupational exposure limits

Ingredient name	Exposure limits
sulphuric acid	<p>Safe Work Australia (Australia, 8/2005). STEL: 3 mg/m³ 15 minute(s). TWA: 1 mg/m³ 8 hour(s).</p>

8. Exposure controls/personal protection

	Product AS SOLD	Product AT USE DILUTION
Engineering measures	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use explosion-proof ventilation equipment.	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
Personal protection		
Eyes	: Wear chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.	Recommended: Safety glasses.
Hands	: Use chemical-resistant, impervious gloves. Recommended: Elbow length PVC gloves.	Recommended: PVC gloves.
Respiratory	: If ventilation is inadequate, use respirator that will protect against dust/mist. Respiratory protection should conform to AS/NZS 1715 and AS/NZS 1716.	A respirator is not needed under normal and intended conditions of product use.
Skin	: Wear synthetic apron, other protective equipment as necessary to prevent skin contact.	No special protective clothing is required.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	

9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
Physical state	: Powder	Liquid.
Colour	: Blue.	Hazy liquid [Light]
Odour	: Floral	Floral
pH	: 11 to 12.5 [Conc. (% w/w): 1%]	10 to 12.5
Flash point	: > 100°C Product does not support combustion.	> 100°C
Solubility	: Easily soluble in the following materials: cold water and hot water.	

10. Stability and reactivity

	Product AS SOLD
Stability	: The product is stable.
Conditions to avoid	: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.
Materials to avoid	: Highly 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.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Potential acute health effects

	Product AS SOLD
Inhalation	: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
Ingestion	: May cause burns to mouth, throat and stomach.
Skin contact	: Corrosive to the skin. Causes burns.
Eye contact	: Corrosive to eyes. Causes burns.

Product AT USE DILUTION

No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Potential chronic health effects

Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

12. Ecological information

Product AS SOLD

Ecotoxicity data

Product/ingredient name	Result	Species	Exposure
disodium metasilicate	Acute EC50 4857 mg/L		48 hours
	Acute LC50 3185 mg/L		96 hours
	Acute LC50 2320 mg/L		96 hours
alcohols, c12-15, ethoxylated	Acute EC50 1.4 mg/L		48 hours
	Acute EC50 1.3 mg/L		48 hours
	Acute LC50 1.58 mg/L		96 hours
	Acute LC50 1.4 mg/L		96 hours
	Acute LC50 1.16 mg/L		96 hours
	Acute LC50 1.03 mg/L		96 hours

Persistence/degradability	: Not available.
Mobility	: Not available.
Other adverse effects	: Harmful to aquatic organisms.

13. Disposal considerations

	Product AS SOLD
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Product AT USE DILUTION

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14. Transport information

Product AS SOLD

Regulation	UN number	Proper shipping name	Classes	Packing group	Additional information
ADG	UN3262	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (disodium metasilicate)	8	II	<u>Hazchem code</u> 2X
IMDG	UN3262	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (disodium metasilicate)	8	II	<u>Emergency schedules (EmS)</u> F-A, S-B

Product AT USE DILUTION

Not intended for transport.

15. Regulatory information

Product AS SOLD

AU Classification : **Classified as hazardous** according to the criteria of Safe Work Australia and **classified as dangerous goods** according to the ADG Code.
 C - Corrosive
 R34- Causes burns.
 R41- Risk of serious damage to eyes.

Product AT USE DILUTION

Not classified as hazardous according to the criteria of Safe Work Australia **nor classified as dangerous goods** according to the ADG Code.
 Not applicable.
 Not classified.

Australia inventory (AICS) : All substances are listed on AICS or exempt.

Standard for the Uniform Scheduling of Medicines and Poisons

Schedule 5

Control of Scheduled Carcinogenic Substances

<u>Ingredient name</u>	<u>Schedule</u>
No listed substance	

16. Other information

Prepared by : Regulatory Affairs

Date of previous issue : No previous validation

References :

- ADG Code - Australian Transport of Dangerous Goods
- Adopted National Exposure Standard for Atmospheric Contaminants in the Occupational Environment
- Approved Criteria for Classifying Hazardous Substances
- List of Designated Hazardous Substances
- National Code of Practice for the Labelling of Workplace Substances
- National Code of Practice for the Preparation of Material Safety Data Sheets
- National Model Regulations for the Control of Scheduled Carcinogenic Substances
- National Model Regulations for the Control of Workplace Hazardous Substances
- Standard for the Uniform Scheduling of Medicines and Poisons

Disclaimer

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.**