

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material Name: General purpose cleaner.
Catalogue Number: M031.
Other Names: Branson GP; 2-Butoxyethanol; EGBE; Ethylene glycol monobutyl ether; Butyl cellosolve; Disodium Metasilicate; Corrosive Liquid, Basic, Inorganic, n.o.s. (Contains Disodium Metasilicate).
Recommended Use: General Purpose Cleaner for Laboratory use.

Supplier Name: ProSciTech
Street Address: 1/11 Carlton Street, Kirwan, Qld. 4817 Australia
Telephone Number: (07) 4773 9444 - 8:30am – 5:00pm, Monday to Friday (excluding Public Holidays)
Emergency Contact: (07) 4773 9444 - 8:30am – 5:00pm, Monday to Friday (excluding Public Holidays)

SECTION 2 - HAZARDS IDENTIFICATION

Hazard Classification: Hazardous according to criteria of Hazardous Substances Information System [HSIS Worksafe Australia].

Hazardous and/or Dangerous Nature: HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

Risk Phrases: R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R36/38 Irritating to eyes and skin.
R37 Irritating to respiratory system.

Safety Phrases: S1/2 Keep locked up and out of reach of children.
S13 Keep away from food, drink and animal feeding stuffs.
S24/25 Avoid contact with skin and eyes.
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).
S46 If swallowed, seek medical advice immediately and show this container or label.

Refer to Section 15 for Poisons Schedule.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Pure Substance (Proportion 100%):

Chemical Identity: Mixture See Below
Common Name(s): Mixture See Below
CAS Number): Mixture See Below

Mixture Substance:

Ingredients	Cas Number(s)	Proportion (%)
2-Butoxyethanol	111-76-2	< 7
Disodium metasilicate	6834-92-0	< 7
Mixture of Non-Hazardous materials	Mixture	86-100

SECTION 4 - FIRST AID MEASURES

Ingestion: Seek medical attention immediately. Have person sip a glass of water if able to swallow. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately.

First Aid Facilities: Eyebath/eyewash, Safety shower & general washroom facilities.

Medical Attention & Special Treatment:
No advice available.

Additional Information:

No further information available.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Use appropriate methods for combating surrounding fire.

Hazards from Combustion Products:

None.

Precautions for Fire Fighters:

Wear a self contained breathing apparatus with a full face piece operated in the positive pressure demand mode. Chemical resistant Personal Protective Equipment is recommended.

Hazchem Code: Not available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Containment & Clean up:

Absorb spill with inert material (e.g. dry sand, earth). Prevent runoff from entering drains, sewers or other bodies of water. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

SECTION 7 - HANDLING & STORAGE

Precautions for Safe Handling:

Follow all MSDS/label precautions even after container is emptied because they may contain product residues. Use with adequate ventilation. Do not get in eyes, on skin or clothing.

Precautions for Safe Storage:

Store in a cool dry place. Keep container closed when not in use. Keep out of reach of children.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: 2-Butoxyethanol:
TWA 20ppm
TWA 96.9mg/m³
STEL 50ppm
STEL 242mg/m³

Disodium Metasilicate: No exposure standard allocated.

Biological Limit Values: No biological limit allocated.

Engineering Controls:

Ventilation required: Good general ventilation required.

Personal Protective Equipment:

Respiratory protection: When respiratory protection is required, use an organic vapor & particulate cartridge. All respiratory programs must meet OSHA's 29 CFR 1910.34 & ANSI Z88.2 requirements.

Protective gloves: Wear impervious gloves made of nitrile, neoprene or rubber.

Skin protection: Protective clothing and boots, to prevent contact with skin.

Eye protection: Wear safety glasses or goggles.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance: Clear, red liquid.
Odour: Butyl odour.
pH: 12
Vapour pressure (mm of Hg at °C): Not available.
Vapour density: Not available.
Boiling point/range (°C): > 100°C.
Freezing/melting point (°C): Not available.
Solubility: Completely soluble in water.
Specific gravity or density: (H₂O=1): 1.07
Flash Point: No flash by standard methods.
Flammable (explosive) limits: Not available.
Ignition temperature: Not available.
Additional Information: Not available.

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions of use.
Conditions to avoid: High temperatures and incompatible materials.
Incompatible Materials: Strong acids, alkalis, oxidizing agents.
Hazardous Decomposition Products: None.
Hazardous Reactions: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Exposure and Health Effects:
 2-Butoxyethanol has caused red blood cell haemolysis in lab animals and secondary injury to the liver and kidney.
Ingestion:
 May cause headache, dizziness, in coordination, nausea, vomiting, diarrhoea and general weakness.
Inhalation:
 High concentrations of vapour or mists may cause irritation of the respiratory tract.
Eye Contact:
 Causes severe irritation experienced as discomfort or pain, excess blinking and tear production, with redness and swelling of the conjunctiva.
Skin Contact:
 Dermal exposure may cause local redness and swelling, pain and discomfort. Prolonged skin contact may result in absorption of harmful amounts. Brief contact may cause slight irritation. Prolonged contact may cause more severe irritation with pain, local redness and swelling.
Human/Animal data: Not available.
Carcinogenic Category: No data available to classify Carcinogenic Category.
Other Carcinogenic Information: Not available.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Results of component toxicity test performed: 2-Butoxyethanol: (Skin, Rabbit): 24 hr uncovered-minimal erythema in 2/5; no irritation 3/5.
 2-Butoxyethanol: (Toxicity, Fathead Minnow) 96h: LC50 = 1700 mg/l
Persistence and degradability: Not available.
Mobility: Not available.
Additional Information: Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods:
 Dispose of waste according to Federal, State and Local Regulations.
Special Precautions/Additional Informational:
 Dispose of waste according to Federal, State and Local Regulations.

SECTION 14 - TRANSPORT INFORMATION

UN Number: UN3266
UN Proper Shipping Name: Corrosive Liquid, Basic, Inorganic, n.o.s. (Contains Disodium Metasilicate)
Class and Subsidiary risk: 8
Packing Group: II
Special Precautions for User: Not available.
Hazchem Code: Not available.

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number: None Allocated.

SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS: September 10
Comments:

List of Publications referenced when creating this MSDS;

- Hazardous Substances Information System Consolidated Lists: Safe Work Australia.
- APPROVED CRITERIA FOR CLASSIFYING HAZARDOUS SUBSTANCES [NOHSC:1008(2004)] 3rd Edition: National Occupational Health and Safety Commission.
- Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997).
- IATA Dangerous Goods Regulations.
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)].
- Australia Standard for the Uniform Scheduling of Drugs and Poisons [SUSPD] (Australian Government Department of Health and Ageing).

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the National code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this MSDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Material Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

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