SAFETY DATA SHEET

Revision Date 20-Aug-2015 **Version** 1

SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product identifier

Product Name Filter Brite

Product Code A-0959

Other means of identification

UN Number UN3262

Recommended use of the chemical and restrictions on use

Recommended Use Swimming pool chemical

Uses advised against No information available

Details of manufacturer or importer

Supplier

BIOLAB AUSTRALIA PTY LTD
86 King William Road
Goodwood, SA 5034, Australia
Telephone: +61 (8) 8274 6800 Fax: +61 (8) 8271 0612

For further information, please contact

Contact Point Customer Service: 1800 635 743 (AU)

Emergency telephone number

Emergency telephone number In an Emergency: Dial 000 (AU)
For SPECIALIST advice in an EMERGENCY ONLY phone CHEMCALL - FREE CALL ALL HOURS: AU 1800 127 406

SECTION 2: HAZARD(S) IDENTIFICATION

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonised System (GHS)

GHS Classification

Acute toxicity - Oral	Category 4 - (H302)
Skin corrosion/irritation	Category 1 - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Specific target organ toxicity (single exposure)	Category 3 - (H335)

Label elements

Signal word Danger

Hazard statements

H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H335 - May cause respiratory irritation

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapours/spray
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Precautionary Statements - Response
Immediately call a POISON CENTRE or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTRE or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before re-use
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTRE or doctor/physician
Call a POISON CENTRE or doctor/physician if you feel unwell
IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell
Rinse mouth
Do NOT induce vomiting
Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Other hazards
No information available

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS, IN ACCORDANCE WITH SCHEDULE 8

Substance

Chemical Name	CAS No	Weight-%
disodium metasilicate	6834-92-0	28.2
sodium hydroxide (Solution)	1310-73-2	18.9
sodium carbonate	497-19-8	10 - 30
Sodium Dichloro-S-Triazinetrione	2893-78-9	5.7
Non-hazardous ingredients	Proprietary	Balance

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice Immediate medical attention is required.

Inhalation Remove to fresh air. Call a doctor or poison control centre immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Skin contact Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Eye contact Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.

Ingestion Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a doctor or poison control centre immediately.

Self-protection of the first aider Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to doctors Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Suitable Extinguishing Media

Suitable extinguishing media
Dry chemical, CO2 or water spray. Use water spray or fog; do not use straight streams.

Unsuitable extinguishing media
Do not scatter spilled material with high pressure water streams

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes Thermal decomposition can lead to release of irritating and toxic gases and vapours In the event of fire and/or explosion do not breathe fumes

Special protective actions for fire-fighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak. Avoid creating dust.

For emergency responders
Use personal protection recommended in Section 8.

Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Clean contaminated surface thoroughly. Take up mechanically, placing in appropriate containers for disposal. Use personal

protective equipment as required. Cover powder spill with plastic sheet or tarp to minimise spreading and keep powder dry. Avoid creating dust. Dam up. After cleaning, flush away traces with water.

Precautions to prevent secondary hazards

Prevention of secondary hazards
Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections
No information available.

SECTION 7: HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED

Precautions for safe handling

Advice on safe handling
Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

General Hygiene Considerations
When using do not eat, drink or smoke. Wash contaminated clothing before re-use. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

Incompatible materials
Incompatible with strong acids and bases. Incompatible with oxidising agents.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

Exposure Limits .

Chemical Name	Australia
sodium hydroxide (Solution) 1310-73-2	2 mg/m³ Peak

Appropriate engineering controls

Engineering Controls
Showers
Eyewash stations
Ventilation systems. Ensure adequate ventilation, especially in confined areas. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substances; this is irrespective of the recommendation involving the wearing of eye protection.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield.

Skin and body protection Gloves made of plastic or rubber. Rubber boots. Suitable protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Solid		
Appearance	dry, free flowing granules	**Odour**	Slight chlorine
Colour	off-white	**Odour threshold**	No information available

Property	**Values**	**Remarks • Method**
pH	13 -13.5	
Melting point/freezing point	150 °C / 302 °C °F	Decomposes before melting
Boiling point / boiling range		No information available
Flash point		No information available
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limit in Air		
Upper flammability limit:		
Lower flammability limit:		
Vapour pressure		No information available
Vapour density		No information available
Specific Gravity		No information available
Water solubility	completely soluble	
Solubility(ies)		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Kinematic viscosity		No information available
Dynamic viscosity		
Explosive properties	No information available	
Oxidising properties	No information available	

Other Information

VOC Content (%)	No information available
Bulk density	No information available

SECTION 10: STABILITY AND REACTIVITY

Reactivity
No data available.

Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions
Dust can form an explosive mixture with air.

Conditions to avoid

Exposure to air or moisture over prolonged periods. Extremes of temperature and direct sunlight. Incompatible materials.

Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidising agents.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapours. Carbon oxides. Hydrogen chloride. Nitrogen oxides (NOx).

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Information on likely routes of exposure

Product Information .

Inhalation Irritating to respiratory system.

Eye contact Causes burns. Risk of serious damage to eyes.

Skin contact Avoid contact with skin. Causes severe burns.

Ingestion Harmful if swallowed.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1,418.00
ATEmix (dermal) 5,046.00
ATEmix (inhalation-dust/mist) 7.81

0% of the mixture consists of ingredient(s) of unknown toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
disodium metasilicate	= 600 mg/kg (Rat)	-	-
sodium hydroxide (Solution)	-	= 1350 mg/kg (Rabbit)	-
sodium carbonate	= 4090 mg/kg (Rat)	-	= 2300 mg/m³ (Rat) 2 h
Sodium Dichloro-S-Triazinetrione	= 735 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	0.27 - 1.17 mg/L (Rat, dust) 4 h

See section 16 for terms and abbreviations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation
No information available.

Serious eye damage/eye irritation
No information available.

Sensitisation
No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity
No information available.

Reproductive toxicity
No information available.

STOT - single exposure
No information available.

Chronic toxicity
Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen Avoid repeated exposure Possible risk of irreversible effects

Target Organ Effects
Eyes Respiratory system Skin

STOT - repeated exposure
No information available.

Aspiration hazard
No information available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
23.6 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
disodium metasilicate	-	*210: 96 h Brachydanio rerio mg/L LC50 semi-static 210: 96 h Brachydanio rerio mg/L LC50*	*216: 96 h Daphnia magna mg/L EC50*
sodium hydroxide (Solution)	-	*45.4: 96 h Oncorhynchus mykiss mg/L LC50 static*	-
sodium carbonate	*242: 120 h Nitzschia mg/L EC50*	*300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static*	*265: 48 h Daphnia magna mg/L EC50*
Sodium Dichloro-S-Triazinetrione	-	*0.25 - 1: 96 h Lepomis macrochirus mg/L LC50 static 0.207 - 0.389: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.176 - 0.267: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.29: 96 h Oncorhynchus mykiss mg/L LC50 0.13 - 0.36: 96 h Oncorhynchus mykiss mg/L LC50 static*	*0.00018 - 0.00021: 48 h Daphnia magna mg/L EC50 0.093 - 0.16: 48 h Daphnia magna mg/L EC50*

Persistence and degradability
No information available.

Bioaccumulative potential
No information available.

Mobility

Mobility in soil
No information available.

Mobility
No information available.

Other adverse effects
No information available.

Endocrine Disruptor Information .

Chemical Name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Endocrine disrupting potential
Sodium Dichloro-S-Triazinetrione	Group III Chemical	-	-

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not re-use container. Dispose of in accordance with federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

ADG

UN Number UN3262
Proper shipping name Corrosive Solid, basic, inorganic, n.o.s. (disodium metasilicate, sodium hydroxide)
Hazard Class 8
Packing Group I
Description UN3262 Corrosive Solid, basic, inorganic, n.o.s. (disodium metasilicate, sodium hydroxide), 8, I

IATA

UN/ID no UN3262
Proper shipping name Corrosive Solid, basic, inorganic, n.o.s. (disodium metasilicate, sodium hydroxide)
Hazard Class 8
Packing Group I
Description UN3262 Corrosive Solid, basic, inorganic, n.o.s. (disodium metasilicate, sodium hydroxide), 8, I

IMDG

UN/ID no UN3262
Proper shipping name Corrosive Solid, basic, inorganic, n.o.s. (disodium metasilicate, sodium hydroxide)
Hazard Class 8
Packing Group I
EmS-No F - A, S - B
Description UN3262 Corrosive Solid, basic, inorganic, n.o.s. (disodium metasilicate, sodium hydroxide), 8, I

Marine pollutant This material meets the definition of a marine pollutant

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information available

SECTION 15: REGULATORY INFORMATION

Regulatory information

National regulations

Australia
Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonised System (GHS)

See section 8 for national exposure control parameters

Poison Schedule Number 6

International Inventories

TSCA	Complies
NZIoC	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
NZIoC - New Zealand Inventory of Chemicals
AICS - Australian Inventory of Chemical Substances

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

SECTION 16: ANY OTHER RELEVANT INFORMATION

Revision Date 20-Aug-2015

Revision Note
The symbol (*) in the margin of this SDS indicates that this line has been revised.

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet