



Product	B&B Flow-Fine: Liquid Blood and Bone
Document Reference	SDS_02_2 Growth Ag B&B Flow-Fine.docx
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SAFETY DATA SHEET

Section 1 : IDENTIFICATION

Product identifier	B&B Flow Fine: Liquid Blood and Bone
Other means of identification	Contains ingredients consistent with blood and bone products. Formulated to Nitrogen : Phosphorous : Potassium ratios of 10:3:6
Recommended use and restrictions on use	Liquid fertiliser for plants.
Details of manufacturer	Growth Agriculture Pty Ltd. PO Box 444, Wee Waa, NSW 2388, Australia. Freecall 1800 440 438 Phone (02) 6795 3787 Fax (02) 6795 3707
Emergency phone number	(Australia) 1800 440 438 or Poisons Information Centre (Australia) 13 11 26 Poisons Information Centre (NZ) 0800 764 766

Section 2 : HAZARDS IDENTIFICATION

Classification of the hazardous chemical	Not classified as hazardous according to the criteria of SWA Australia. Not a Dangerous Good according to the Australian Dangerous Goods [ADG] Code.
Label elements, including precautionary statements	No GHS hazard classification. No precautionary statements due to the low hazard potential for this product.
Other hazards which do not result in classification	Contains restricted animal material – do not feed to cattle, sheep, goats, deer, or other ruminants.



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Section 3 : COMPOSITION AND INFORMATION ON INGREDIENTS

Identity of chemical ingredients	Contains ingredients consistent with blood and bone products. Formulated to Nitrogen : Phosphorous : Potassium ratios of 10:3:6. Contains water.
CAS Number and other unique identifiers	7732-18-5 <i>Water</i> .
Concentration of ingredients	Blood & bone – constituent ratios not set. This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible. Water – to 100%.

Section 4 : FIRST AID MEASURES

Description of necessary first aid measures	From the available evidence, this product would appear to offer no significant health hazard by any exposure route. Consequently, First Aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
Symptoms caused by exposure	None specified.
Medical attention and special treatment	You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The contact numbers are in Section 1 in this SDS. Have this SDS with you when you call.

Section 5 : FIRE FIGHTING MEASURES

Suitable extinguishing media	This product will not burn.
Specific hazards arising from the chemical	The residual dry components may thermally decompose after further strong heating. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
Special protective equipment and precautions for fire fighters	Protective suit and breathing apparatus.



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Section 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Usually, no respirator is necessary when using this product.

Environmental precautions In the event of a major spill, prevent spillage from entering drains or water-courses.

Methods and materials for containment and cleaning up Stop any leak if safe to do so, and contain the spill. Absorb onto sand, vermiculite or other suitable absorbent material. If the spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Collect recoverable product and place into labelled containers for recycling or salvage, and dispose of promptly.

After spills, wash the area and prevent runoff from entering local drains. If a significant quantity of material enters drains, advise emergency services.

NOTE : Please read the product label for additional information. Instructions on the label must take precedence over this SDS.

Section 7 : HANDLING & STORAGE

Precautions for safe handling Keep exposure to this product to a minimum, and minimise the quantities kept in work areas.

Carefully read other sections of this SDS for details on personal protective measures, and make sure that those measures are followed. Also check the measures for storage.

Avoid contact or contamination of product with incompatible materials (if any) listed in this SDS.

Conditions for safe storage, including any incompatibilities Store packages of this product in a cool, dry and well-ventilated place out of direct sunlight. Store the product in the original package.

Avoid contact or contamination of product with incompatible materials (if any) listed in this SDS.

NOTE : Please read the product label for additional information. Instructions on the label must take precedence over this SDS.



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Section 8 : EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters – exposure standards, biological monitoring

Use in a cool, well-ventilated space.

No data is available in literature for an acceptable time-weighted average [TWA] exposure concentration (over an 8 hour work shift) for this product.

No data is available in literature for a short-term exposure limit [STEL] for this product.

Given the lack of exposure limit data and the likely low toxicity as vapour, no recommendations can be provided on biological monitoring.

Appropriate engineering controls

Use in a cool, well-ventilated space. Have spillage kits available on site.

Personal protective equipment (PPE)

No special equipment is normally needed for the routine handling this product. However good practice suggests that you should have eye protection available in the form of safety glasses, goggles or a face mask. The use of gloves is optional as no special risk is evident. If substantial skin contact occurs, wash with clean water.

Section 9 : PHYSICAL & CHEMICAL PROPERTIES

Appearance	Brown liquid.
Odour	Characteristic odour of blood & bone fertiliser.
Odour threshold	No data available.
pH	No data available.
Melting point/Freezing point	Approximately 0 °C.
Boiling point and boiling range	Approximately 100 °C.
Flash point	Not flammable nor combustible.
Evaporation rate	No data available.
Flammability	Not flammable nor combustible.
Upper & lower flammability limits	Not flammable nor combustible.
Vapour pressure	No data available.
Vapour density	No data available.
Relative density	No data available.



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Solubility	This product is an aqueous solution / suspension.
Partition coefficient (n.octonol:water)	This product is an aqueous solution / suspension.
Auto-ignition temperature	Will not auto-ignite.
Decomposition temperature	No data available.
Viscosity	As for water.
Specific heat value	As for water.
Particle size	This product is an aqueous solution / suspension.
Volatile organic compounds content	No data available.
% volatile	Water component.
Saturated vapour concentration	As for water.
Release of invisible flammable vapours and gases	No data available, but none likely.
ADDITIONAL PARAMETERS	
Shape and aspect ratio	Not applicable.
Crystallinity	Not applicable.
Dustiness	Not applicable.
Surface area	Not applicable.
Surface area	Not applicable.
Degree of aggregation or agglomeration	Not applicable.
Ionisation (redox potential)	No data available.
Biodurability or biopersistence	No specific data but unlikely to be persistent and unlikely to bioaccumulate.



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Section 10 : STABILITY & REACTIVITY

Reactivity	Relatively unreactive, will not polymerise.
Chemical stability	At normal storage conditions this product is chemically stable.
Conditions to avoid	Avoid excessive heat, unventilated spaces and excessive long-term direct sunlight.
Incompatible materials and possible hazardous reactions	Avoid contact with strong oxidising substances.
Hazardous decomposition products	No specific data is available although the residual dry components may thermally decompose after strong heating.

Section 11 : TOXICOLOGICAL INFORMATION

Information on routes of exposure	No specific information is available however it is likely that direct contact with the surface of eyes or mucous membranes could cause irritation.
Symptoms related to exposure	Direct contact with the surface of eyes or mucous membranes are treatable by irrigation.
Numerical measures of toxicity	No data available.
Immediate, delayed and chronic health effects from exposure	Immediate but transient surface irritation. No data available on the effects of chronic exposure.
Exposure levels	No data available.
Data limitations	No data available.

Section 12 : ECOLOGICAL INFORMATION

Ecotoxicity	No data available.
Persistence and degradability	Likely to degrade.
Bioaccumulative potential	No data available.
Mobility in soil	No specific data but being an aqueous solution, this product is likely to be mobile.
Other adverse effects	No data available.



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Section 13 : DISPOSAL CONSIDERATIONS

Safe handling and disposal methods	Details are provided on the product label.
Disposal of any contaminated packaging	Details are provided on the product label.
Environmental regulations	Should not be discharged into waterways without prior local government approval.


NOTE : Please read the product label for additional information. Instructions on the label must take precedence over this SDS.

Section 14 : TRANSPORT INFORMATION

UN Number	No UN number allocated.
Proper shipping name	Not specified in the Australian Dangerous Goods Code 7 th edition.
Transport hazard class	No data provided in the Australian Dangerous Goods Code 7 th edition.
Packaging group	No data provided in the Australian Dangerous Goods Code 7 th edition.
Environmental hazards	No data is available from literature.
Special precautions during transport	None known.
Hazchem code	No data provided in the Australian Dangerous Goods Code 7 th edition.

Section 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product	No special provisions apply to this product.
Poisons schedule number	No poisons schedule number is available for this product nor for any of the main constituents

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Section 16 : OTHER INFORMATION

Date of preparation or review November 2014

Key abbreviations or acronyms used Where relevant, full wording followed by [square bracketing] abbreviations are provided in this SDS.

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