

## MoBstar™

### Section 1: Identification of the Substance or Mixture and of the Supplier

<b>Product name</b>	MoBstar
<b>Recommended use</b>	Foliar spray for the correction or Molybdenum and Boron deficiency.
<b>Company details</b>	Grochem (AgriNova New Zealand Limited) 15 Sunlight Grove Porirua New Zealand
<b>Telephone</b>	+64 4 237 0905
<b>Email</b>	grochem@grochem.com
<b>Emergency telephone</b>	New Zealand 0800 CHEMCALL – 24 hours (0800 243 6225)  Australia 1800 127 406 Other locations +64 4 917 9888  or The National Poisons Centre 0800 POISON (0800 764 766)
<b>Date of preparation</b>	21 November 2017

### Section 2: Hazards Identification

<b>Hazard classification (Transport):</b>	Not a dangerous good for transport.
<b>Hazardous substances (HSNO):</b>	6.1E (WARNING: May be harmful if swallowed or in contact with skin) 6.3B (WARNING: Causes mild skin irritation) 6.4A (WARNING: Causes serious eye irritation) 6.8B (WARNING: Suspected of damaging fertility or the unborn child) 6.9A (DANGER: Causes damage to organs through prolonged or repeated exposure) 9.1D (Toxic to aquatic life)



### Section 3: Composition/Information on Ingredients

<b>Classification &amp; type:</b>		
<b>Material</b>	<b>CAS No.</b>	<b>Proportion (%w)</b>
Boron ethanolamine complex	-	55-60
Sodium Molybdate	10102-40-6	5
Non-Hazardous components		to 100%

## Section 4: First Aid Measures

<b>Symptoms of exposure</b>	No adverse health effects expected if the product is handled in accordance with this SDS and the product label. Symptoms that may arise if the product is mishandled are:
If Swallowed	Causes damage to organs through prolonged or repeated exposure. Suspected of damaging fertility or the unborn child.
If in Eyes	Causes serious eye irritation.
If on Skin	Causes mild skin irritation.
If Inhaled	May cause irritation to the respiratory system.
<b>First aid actions:</b>	If exposed, concerned or if symptoms persist, get medical advice/attention. If medical advice is needed, have product container or label at hand.
If Swallowed	Call a POISON CENTRE or doctor/physician if you feel unwell.
If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
If on Skin	Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention. Wash contaminated clothing before reuse.
If Inhaled	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms, call a POISON CENTRE or doctor/physician.
<b>Workplace facilities:</b>	Standard hygiene facilities should be in place. Eyewash facilities should be available.
<b>Notes for medical personnel:</b>	Treat symptomatically.

## Section 5: Fire Fighting Measures

<b>Type of hazard</b>	Not flammable, releases toxic gases if heated to decomposition.
<b>HAZCHEM code:</b>	N/A
<b>Combustion products:</b>	Ammonia, oxides or phosphorus, molybdenum, carbon and nitrogen.
<b>Extinguishing media &amp; methods:</b>	As suitable to surroundings use foam, water spray, dry chemical or CO <sub>2</sub> . Cool containers with water. Contain runoff.
<b>Recommended protective clothing:</b>	Positive pressure breathing apparatus should be used.

## Section 6: Accidental Release Measures

<b>Personal protection</b>	See Section 8.3 for appropriate PPE.
<b>Containment and clean up:</b>	Contain spillage with absorbent material. Prevent spillage from entering waterways and drains. Avoid spreading spill material. Dispose of collected waste at an approved disposal facility.
<b>Special requirements:</b>	See Section 13 for instructions for the disposal of waste/contaminated material.

## Section 7: Handling and Storage

<b>Subsection 1</b>	<b>Handling</b>
Handling practices	Wear appropriate PPE as detailed in Section 8.3. Keep out of reach of children. Read label before use. Do not eat drink or smoke while using this product. Do not handle until all safety precautions have been read and understood.
<b>Subsection 2</b>	<b>Storage</b>
Site requirements	Store locked up away from foodstuffs in a well ventilated area. Product will darken if stored in warm condition or in direct sunlight.
Packaging	Store in original container until used.

**Section 8: Exposure Controls/Personal Protection**

<b>Subsection 1:</b>	<b>Workplace Exposure Guidelines (may also be considered in section 2)</b>
Workplace exposure standards	No exposure standards have been set for this substance.
<b>Subsection 2:</b>	<b>Engineering Controls</b>
Exposure control measures	Avoid generation of product mist. Use breathing apparatus when spraying.
<b>Subsection 3:</b>	<b>Personal Protective Equipment (PPE)</b>
Detail specifications for equipment	Wear eye/face protection. Wear breathing apparatus when spraying. Wear nitrile or other impervious protective gloves. Wear cotton overalls.
General hygiene	Wash thoroughly after handling. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Green liquid	<b>pH</b>	7
<b>Odour</b>	Amine	<b>Boiling point (degC)</b>	Not available
<b>Specific gravity (kg/L)</b>	1.31	<b>Freezing point (degC)</b>	Not available
<b>Solubility</b>	Infinite in water	<b>Flashpoint (degC)</b>	Not flammable

**Section 10: Stability and Reactivity**

<b>Stability of substance</b>	Stable under normal conditions.
<b>Conditions to avoid:</b>	Avoid high temperatures.
<b>Material to avoid:</b>	Avoid contact with aluminium, copper or oxidising agents.
<b>Hazardous decomposition products:</b>	Ammonia. Phosphorus, molybdenum, carbon and nitrogen oxides.
<b>Hazardous polymerization:</b>	Will not occur.

**Section 11: Toxicological Information**

<b>Data and Interpretation</b>	Calculated LD50 2314mg/kg. See Section 2 for general hazard information.
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**Section 12: Ecological Information**

<b>Potential environmental interactions</b>	Toxic to aquatic life. Avoid release to the environment.
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**Section 13: Disposal Considerations**

<b>Product disposal</b>	Dispose of product by using in accordance with the label instructions. Alternatively bury at an approved landfill.
<b>Container disposal:</b>	Triple rinse into spray tank. Dispose of crushed and punctured container at an approved landfill or recycling depot (eg Agrecovery).

**Section 14: Transport Information**

<b>Not a Dangerous Good for transport.</b>	
<b>Special precautions:</b>	Do not carry more than 5L on a passenger service vehicle.

## Section 15: Regulatory Information

<b>Regulatory status</b>	Approved pursuant to the HSNO Act 1996 under the Fertilisers (Subsidiary Hazard) Group Standard. HSR002571. See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval conditions.
<b>HSNO Controls:</b>	Trigger quantities for this substance:
SDS must be available for	Any quantity
Signage	10,000L
Emergency plan	10,000L
Bunding	10,000L

## Section 16: Other Information

<b>Revision due:</b>	21 November 2022
<b>Additional information:</b>	Directions for use are found on the product label.
<b>Glossary:</b>	
CAS	Chemical Abstract Services Number, used to uniquely identify chemical compounds
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms (legislation 1996)
LD50	Lethal Dose fatal to 50% of test animals/organisms
PPE	Personal Protective Equipment

This SDS summarises our best knowledge of the health and safety hazard information available for this product and how to safely handle and use it. Since the use of this information and the conditions of the use of this product are not under the control of Grochem, it is the user's responsibility to determine conditions of safe use of the product.