



MATERIAL SAFETY DATA SHEET

Product Name **AGB AG-BUFFER 550**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name AGMIN CHELATES PTY LTD
Address 32 Wattlepark Avenue, Moolap, Victoria, AUSTRALIA, 3221
Telephone (03) 5248 3828
Fax (03) 5248 1603
Emergency 0419 306 666
Email service@agmin.com.au
Website http://www.agmin.com.au/
Synonym(s)
Use(s) AGRICULTURAL SPRAY ADDITIVE • PH BUFFER • SURFACTANT
MSDS Date 01 February 2011

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

RISK PHRASES

R20/22 Harmful by inhalation and if swallowed.
R34 Causes burns.
R37 Irritating to respiratory system.
R41 Risk of serious damage to eyes.

SAFETY PHRASES

S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S7 Keep container tightly closed.

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No.	None Allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Packing Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
GLYCOLIC ACID	C2-H4-O3	79-14-1	55%
ETHOXYLATED ALCOHOL C9-C11	Not Available	68439-46-3	45%
WATER	H2O	7732-18-5	Remainder

4. FIRST AID MEASURES

Eye If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poison Information Centre or a doctor, or for at least 15 minutes.

Product Name **AGB AG-BUFFER 550**

Inhalation	If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic Vapour) respirator or Air-Line respirator (in poorly ventilated areas).
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor.
Ingestion	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
Advice to Doctor	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability	Non flammable. May evolve flammable hydrogen gas upon contact with metals.
Fire and Explosion	Non flammable. Treat as per requirements for Surrounding Fires: Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
Extinguishing	Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
Hazchem Code	None Allocated.

6. ACCIDENTAL RELEASE MEASURES

Spillage	If spilt (bulk), contact emergency services if appropriate. Wear butyl/neoprene gloves, a Type A (Organic Vapour) respirator (or an Air-line respirator in confined areas), impervious coveralls and boots. Ventilate and clear area of all unprotected personnel. Eliminate all heat and ignition sources. Cover with sand or similar and place in clean containers for disposal. Prevent contamination of drains or waterways.
-----------------	--

7. STORAGE AND HANDLING

Storage	Store in a cool, dry, well ventilated area, removed from oxidising agents alkalis, active metals and food stuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation systems. Also store removed from acids.
Handling	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Stds	No exposure standard(s) allocated.
Biological Limits	No biological limit allocated.
Engineering Controls	Ensure adequate natural ventilation or where vapours are released use mechanical extraction extraction ventilation. In a laboratory situation use a fume cupboard.
PPE	Wear splash-proof goggles, butyl or viton (R) or neoprene gloves, coveralls and a faceshield. When using large quantities or where heavy contamination is likely, wear: PVC boots. Where an inhalation risk exists, wear: a Type AB (Organic and Inorganic gases/vapours).



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	CLEAR COLOURLESS LIQUID	Solubility (Water)	SOLUBLE
Odour	MILD ODOUR	Specific Gravity	1.25
pH	0.1 @ 25°C	% Volatiles	NOT AVAILABLE
Vapour Pressure	NOT AVAILABLE	Flammability	NON FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	NOT RELEVANT
Boiling Point	112°C	Upper Explosion Limit	NOT RELEVANT
Melting Point	10°C	Lower Explosion Limit	NOT RELEVANT
Evaporation Rate	NOT AVAILABLE	Autoignition Temperature	NOT AVAILABLE

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended conditions of storage.
Conditions to Avoid	Avoid heat, sparks, open flames and other ignition sources.
Material to Avoid	Incompatible with oxidising agents (eg. fluorine), alkalis (eg. sodium hydroxide) and active metals (evolving flammable/ potentially explosive hydrogen gas). Also incompatible with acids (eg. hydrochloric acid).
Decomposition	May evolve toxic gases if heated to decomposition.
Hazardous Reactions	Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Highly corrosive - toxic. This product has the potential to cause severe burns, corrosive damage and scarring, and possible death. Use safe work practices to avoid eye or skin contact, vapour inhalation and ingestion. Upon dilution, the potential for corrosive effects will be reduced.
Eye	Corrosive - severe irritant. Contact may result in pain, redness, corneal burns and ulceration with possible permanent damage.
Inhalation	Corrosive - severe irritant. Over exposure may result in mucous membrane irritation, coughing, bronchitis. At high levels; ulceration, intense thirst, lung tissue damage, chemical pneumonitis and pulmonary oedema. However, due to the low vapour pressure of this product, an inhalation hazard is not anticipated (unless heated or sprayed).
Skin	Corrosive - severe irritant. Contact may result in irritation, redness, itching, pain, rash, dermatitis and burns. Effects may be delayed.
Ingestion	Highly corrosive - toxic. Ingestion may result in burns to the mouth and throat, nausea, vomiting, ulceration of the gastrointestinal tract, oedema, rapid pulse, shock, unconsciousness, convulsions and death.
Toxicity Data	GLYCOLIC ACID (79-14-1) LC50 (Inhalation): 7.1 mg/m ³ /4 hours (rat) LD50 (Ingestion): 1920 mg/kg (guinea pig) LD50 (Intravenous): 1000 mg/kg (cat) TCLo (Inhalation): 2000 mg/m ³ /6 hour/2 weeks intermittently (rat) TDLo (Ingestion): 9000 mg/kg (pregnant rat) ETHOXYLATED ALCOHOL C9-C11 (68439-46-3) LD50 (Ingestion): 1378 mg/kg (rat) LD50 (Skin): > 2000 mg/kg (rabbit) TDLo (Ingestion): 1950 mg/kg/13 weeks intermittently (rat)

12. ECOLOGICAL INFORMATION

Environment	Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.
-------------	--

Product Name **AGB AG-BUFFER 550**

Waste Disposal Wearing the personal protective equipment outlined above, dilute with water and neutralise with sodium carbonate (soda ash) or sodium bicarbonate. Wash to drain with a large excess of water. Alternatively, mix with a flammable solvent and burn in an incinerator equipped with afterburner and scrubber. Contact the manufacturer for additional information.

Legislation Dispose of in accordance with relevant local legislation.

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

Shipping Name	None Allocated				
UN No.	None Allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Packing Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

Poison Schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

Additional Information RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

ACIDS: When mixing acids with water (diluting), caution must be taken as heat will be generated which causes violent spattering. Always add a small volume of acid to a large volume of water, NEVER the reverse.

ABBREVIATIONS:

ADB - Air-Dry Basis.

BEI - Biological Exposure Indice(s)

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EINECS - European INventory of Existing Commercial chemical Substances.

IARC - International Agency for Research on Cancer.

M - moles per litre, a unit of concentration.

mg/m³ - Milligrams per cubic metre.

NOS - Not Otherwise Specified.

NTP - National Toxicology Program.

OSHA - Occupational Safety and Health Administration.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

TWA/ES - Time Weighted Average or Exposure Standard.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Report Status This document serves as the manufacturer's Material Safety Data Sheet ('MSDS').

It is based on information concerning the product which is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

Product Name **AGB AG-BUFFER 550**

While AGMIN CHELATES PTY LTD has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, AGMIN CHELATES PTY LTD accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.

Prepared By AGMIN CHELATES PTY LTD
32 Wattlepark Ave, Moolap
Victoria 3221
Phone: +61 3 5248 3828
Fax: +61 3 5248 1603
Email: service@agmin.com.au
Web: www.agmin.com.au

MSDS Date: 01 Feb 2011

End of Report