

msds

SAFETY DATA SHEET

Ref: FOCUS_ALGICIDE_SDS Page 1 of 5

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT (MATERIAL) NAME	FOCUS ALGICIDE		
OTHER NAMES			
RECOMMENDED USE	Swimming pool algacide.		
SUPPLIER NAME/ADDRESS	Focus Products Pty Ltd 35 Moreton Street Heathwood Qld 4110 PO Box 131 Carole Park QLD 4300		
TELEPHONE NO.	1800 42 55 66	Hours: 0800-1700	Monday-Friday
EMERGENCY PHONE NUMBER	0411 623 619 (A/H)		

SECTION 2 HAZARDS IDENTIFICATION

HAZARD	Classified as hazardous according to criteria of SAFEWORK Australia.		
CLASSIFICATION	Not classified as dangerous according to criteria ADG Code C- Corrosive: N – Dangerous for the environment.		
RISK PHRASE(S)	R 34 Causes burns. R 21/22 Harmful in contact with skin and if swallowed. R 50 Very toxic to aquatic organisms.		
SAFETY PHRASE(S)	S2: Keep out of reach of children. 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, contact a doctor or Poisons Information Centre 131126 immediately (show the label where possible). S61: Avoid release to the environment. Refer to special instructions/safety data sheets.		

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE		
Chemical identity of ingredients	Proportion of ingredients	CAS Number(s) for ingredients
Quaternary ammonium compounds	20%	[63449-41-2]
Balance of formulation consists of other ingredients determined not to be hazardous.		

SECTION 4 FIRST AID MEASURES

Swallowed:	For advice, contact a Poisons Information Centre (Phone Australia 131126; New Zealand 03 4747000) or a doctor at once. If swallowed, do NOT induce vomiting.
Eye:	If in eyes, hold eyelids apart and flush the eye <u>continuously</u> with running water. Continue flushing until advised to stop by the Poisons Information Centre, or a doctor, or for at least 15 minutes.
Skin:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
Inhalation:	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Medical attention or special treatment required
ADVICE TO DOCTOR. Treat symptomatically and as for exposure to benzalkonium chloride.

SECTION 5 FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Foam, Carbon Dioxide, Dry Chemical Powder, and Water fog.
HAZARDS FROM COMBUSTION PRODUCTS	Combustion will release toxic gasses. (CO _x), NO _x
SPECIAL PROTECTIVE PRECAUTIONS AND EQUIPMENT FOR FIRE FIGHTERS	Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of decomposition (CO _x) NO _x evolved.
<i>Additional information</i>	
<i>Hazchem Code</i>	Not Applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES	Extinguish any source of flame Evacuate area, clearing all unnecessary personnel. Contain liquid with soil/sand. Prevent liquid from entering storm water drains, basements or workpits. Wear protective goggles to prevent eye contamination. Absorb spill with soil/sand and recover material into mild steel drums. Label drums correctly.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP	Refer to State Land Waste Management Authority. Empty containers must be decontaminated. Normally suitable for disposal at approved land waste site.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	Wear protective goggles and rubber gloves to prevent eye and skin contamination.
CONDITIONS FOR SAFE STORAGE	Keep containers tightly sealed when not in use. Store in a well-ventilated place and out of direct sunlight. Check area regularly for spills.
INCOMPATIBILITIES	Not to be loaded with dangerous when wet substances (Class 4.3), oxidising agents (Class 5), cyanides (Class 6), strong acids (Class 8) or foodstuffs.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS	Not determined for the product.
BIOLOGICAL LIMIT VALUES	
ENGINEERING CONTROLS	Use in an open area with good ventilation
<u>PERSONAL PROTECTION:</u>	Avoid unnecessary contact as good work practice. Wash contaminated clothing and protective equipment before storing and re-use. Wash hands before eating, smoking or using the toilet.
<u>RESPIRATORY PROTECTION</u>	It is usually safe to not use respiratory protection. However, there may be circumstances where use of a mask or other device is appropriate. Use judgement. For assistance in selecting suitable equipment consult AS/NZ1715.
<u>EYE PROTECTION</u>	Eye protective measures (chemical goggles) are normally necessary, and are suggested when using this product. Consult AS1336 and AS/NZ1337.
<u>PROTECTIVE GLOVES</u>	Rubber, PVC or other protective gloves are necessary, and desirable, especially if product is being used frequently or for lengthy periods. Consult AS2161 for guidance.
<u>CLOTHING</u>	Clean overalls should be worn, preferably with an apron. Consult AS2919 for clothing guidance.
<u>SAFETY FOOTWEAR</u>	Wearing safety boots is advisory. Consult AS/NZ 2210 for advice on Occupational Protective Footwear.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u>	Blue, clear, mobile fluid. Characteristic odour.
<u>Flammability:</u>	Product is not flammable.
<u>Boiling Point:</u>	100°C
<u>Flash Point:</u>	unknown
<u>Vapour Pressure:</u>	unknown
<u>Volatiles:</u>	80+/-0.5%w/w
<u>Vapour Density</u>	unknown
<u>Flammability Limits</u>	unknown

Specific Gravity:	1.02
Solubility in water	completely miscible
pH 1% Aqueous Solution	7.0

SECTION 10 STABILITY AND REACTIVITY

Chemical stability	Stable
Conditions to avoid	Do not mix with oxidising agents (Class 5)
Incompatible materials	Not to be loaded with dangerous when wet substances (Class 4.3), oxidising agents (Class 5), cyanides (Class 6), strong acids (Class 8) or foodstuffs.
Hazardous decomposition products	The product will decompose in a fire giving off toxic carbon monoxide, nitrogen oxides and hydrogen chloride.
Hazardous reactions	Oxidising agents (Class 5)

SECTION 11 TOXICOLOGICAL INFORMATION

Quaternary ammonium compounds	Acute Oral Toxicity LD50 (rat) 190-220mg/kg
SYMPTOMS OF EXPOSURE	
Swallowed:	Harmful liable to cause nausea and vomiting. May cause tissue damage to mouth and gullet.
Eye:	Corrosive. May cause permanent injury and impairment of vision. .
Skin:	Irritant. May be severe with sensitive individuals or after repeated contact. Prolonged or repeated exposure may lead to dermatitis. No specific data available on skin adsorption.
Inhalation:	Not normally considered an inhalation hazard. Aspiration (breathing in) of liquid, spray mist liable to cause severe irritation and damage to respiratory tract.
ACUTE	
DELAYED	Repeated or prolonged exposure may cause allergic contact dermatitis.
<i>Additional information</i>	
<i>Aggravated medical conditions caused by exposure</i>	

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY	This product, while biodegradable at high dilution is toxic to marine and aquatic organisms. Ensure all spills are contained and recovered into suitable drums.
PERSISTENCE AND DEGRADABILITY	Product is biodegradable see below.
MOBILITY	Soluble in water
<i>ADDITIONAL INFORMATION</i>	
<i>ENVIRONMENTAL FATE (EXPOSURE)</i>	
<i>BIOACCUMULATIVE POTENTIAL</i>	<i>Low</i>

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS AND CONTAINERS	Do not dump large quantities into biological treatment ponds. Laboratory data indicates that if quaternary ammonium compounds are discharged steadily at low concentrations (< 15 mg/litre) , it may be expected that these salts can be degraded in sewage treatment plants by acclimatized organisms. Before discharging to sewer, contact local sewerage authority. Contact local Waste Disposal Authority regarding all major disposal problems. Rinse empty containers with clear water only, drain and re-seal before disposal or return.
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SPECIAL PRECAUTIONS FOR LANDFILL OR INCINERATION

SECTION 14 TRANSPORT INFORMATION

UN NUMBER	Not applicable
UN PROPER SHIPPING NAME	Not applicable
CLASS AND SUBSIDIARY RISK	Not applicable
PACKING GROUP	Not applicable
SPECIAL PRECAUTIONS FOR USER	Not applicable

HAZCHEM CODE Not applicable

SECTION 15 REGULATORY INFORMATION

Poison Schedule 5
 OHS Considered a hazard
 Environmental Considered a hazard

*Additional information**Additional national and/or international regulatory information.***SECTION 16 OTHER INFORMATION**

Date of preparation or last revision of the MSDS 4 December 2014

Prepared by Glenn Bowring B App Sc (App Chem)

*Additional information**Key/legend to abbreviations and acronyms used in the MSDS.***ADG** Australian Code for the Transport of Dangerous Goods by Road and Rail**ACGIH** American Conference of Governmental Industrial Hygienists**ASCC** Australian Safety and Compensation Council**Carcinogen** 1. Established human carcinogen**Category Number** 2. Probably human carcinogen

3. Substances suspected of having carcinogenic potential

Code AICS Australian Inventory of Chemical Substances**CAS number** Chemical Abstracts Service Registry Number**EPG** Emergency Procedure Guide (superseded by IERG)**Hazchem Code** Emergency action code of numbers and letters that provide information to emergency services especially firefighters**IARC** International Agency for Research on Cancer**IATA** International Air Transport Association**IERG** HB 76-2004 Dangerous goods - Initial Emergency Response Guide**IMDG** International Maritime Dangerous Goods. A uniform code for transport of dangerous goods at sea.**LEL** lower flammable (explosive) limits in air;**LD₅₀** Lethal Dose sufficient to kill 50% of test population**NIOSH** National Institute for Occupational Safety and Health The United States federal agency responsible for conducting research and making recommendations for the prevention of work-related injury and illness.**NOAEL** No Observed Adverse Effect Level**NOEL** No Observable Effect Level**NOHSC** National Occupational Health and Safety Commission**NTP** National Toxicology Program (USA)**PEL** Permissible Exposure Limit**RTECS** Registry of Toxic Effects of Chemical Substances (Symyx Technologies')**TCL_o** Toxic Concentration Low**TD_{Lo}** Toxic Dose Low : lowest dosage per unit of bodyweight (typically stated in milligrams per kilogram) of a substance known to have produced signs of toxicity in a particular animal species.**TLV** Threshold Limit Value (ACGIH):The time weighted average used to describe exposure which is harmless to most of the population when exposed 8 hours per day, 40 hours per week.**TWA** (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

SAFework Independent statutory agency with primary responsibility to improve occupational health and safety and workers' compensation arrangements across Australia.**STEL** (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.**SUSDP** Standard for the Uniform Scheduling of Drugs & Poisons**SUSMP** Standard for the Uniform Scheduling of Medicines & Poisons**UEL** upper flammable (explosive) limits in air;**UN Number** United Nations Number*Literature references.*

Sources for data. Material Safety Data Sheets from Suppliers
 Hazardous Substances Information System (HSIS)– ASCC Australia (on-line)
 ESIS (European Chemical Substance Information System)
 ADG Code 7th Edition

SUSMP N° 4

DISCLAIMER:

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Focus Products. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. Focus Products however makes no warranty whatsoever, expressed, implied or of merchantability regarding the accuracy of such data or the results to be obtained from the use thereof and assumes no responsibility for injury to buyer or third persons or for any damage to property, Buyer assumes all risks. .