msds

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MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT (MATERIAL) NAME	**BANISH** PHOSPHATE REMOVER
OTHER NAMES	
RECOMMENDED USE	A phosphate reduction treatment suitable for use in swimming pools.
SUPPLIER NAME/ADDRESS	Focus Products Pty Ltd 35 Moreton Street Heathwood Qld 4110 PO Box131 Carole Park QLD 4300
TELEPHONE NO.	1800 42 55 66
EMERGENCY PHONE NUMBER	0411 623 619 (A/H)

SECTION 2 HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION	**Not classified as hazardous according to criteria of SAFEWORK Australia.** **Not classified as dangerous according to criteria of ADG Code.**
RISK PHRASE(S)	
SAFETY PHRASE(S)	

SECTION 3 COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

MIXTURE

Chemical identity of ingredients	Proportion of ingredients	CAS Number(s) for ingredients
Lanthanum salts	20-50%	[10025-84-0]

Balance of formulation consists of ingredients determined not to be hazardous.

SECTION 4 FIRST AID MEASURES

Swallowed:	For advice, contact a Poisons Information Centre (Phone Australia 131126; New Zealand 0800 764 766) or a doctor. If swallowed, do NOT induce vomiting.
Eye:	If in eyes, hold eyelids apart and flush the eye continuously 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:	Unlikely exposure route, however if inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
Medical attention or special treatment required	
ADVICE TO DOCTOR.	Treat symptomatically. Product is mildly acidic.

SECTION 5 FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Foam, Carbon Dioxide, Dry Chemical Powder, and Water fog.

HAZARDS FROM COMBUSTION PRODUCTS	Non-combustible liquid. Incompatible with aluminium, brass, bronze, copper, tin and zinc. Hazardous decomposition products are unknown.
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 of other surrounding materials (COx) evolved.
Additional information	Not classed as flammable under ADG Code .
Hazchem Code	NA

SECTION 6 ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES	Extinguish any source of flame. Will be slippery when spilt, and wet down clean up immediately. Evacuate area, clearing all unnecessary personnel. Contain liquid. Prevent liquid from entering storm water drains, basements or work pits Wear full protective equipment to prevent skin and eye contamination. Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated collect material, transfer to suitable, labelled, dry chemical waste containers and dispose of promptly as dry waste. Wash area down with excess water. Recover the cleaning water for subsequent disposal. Clearly label contaminated drums. Dispose in compliance with local government authority
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), strong alkali (Class 8) or foodstuffs.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS	Not determined for this product.
BIOLOGICAL LIMIT VALUES	
ENGINEERING CONTROLS	
PERSONAL PROTECTION:	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.
RESPIRATORY PROTECTION	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.
EYE PROTECTION	Eye protective measures are normally necessary, and are suggested when using this product. Consult AS1336 and AS/NZ1337
PROTECTIVE GLOVES	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.
CLOTHING	Clean overalls should be worn, preferably with an apron. Consult AS2919 for clothing guidance.
SAFETY FOOTWEAR	Wearing safety boots is advisory. Consult AS/NZ 2210 for advice on Occupational Protective Footwear.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear mobile fluid. No apparent odour.
Flammability:	Not applicable
Melting Point:	Not applicable
Boiling Point:	unknown
Flash Point:	Not applicable
Vapour Pressure:	unknown
Volatiles:	nil
Vapour Density	unknown
pH as supplied	4.0-5.0
Specific Gravity:	1.10-1.15

Solubility in water	soluble

SECTION 10 STABILITY AND REACTIVITY

Chemical stability	Stable
Conditions to avoid	Do not mix with alkali
Incompatible materials	Alkali
Hazardous decomposition products	none
Hazardous reactions	Will react with Sodium Hydroxide etc

SECTION 11 TOXICOLOGICAL INFORMATION

Lanthanum salts	Oral LD_{50} (Rat):4200mg/kg; Dermal Rat LD_{50} : 106mg/ kg
SYMPTOMS OF EXPOSURE	
Swallowed:	If swallowed can result in nausea, vomiting.
Eye:	May be an irritant.
Skin:	May be an irritant.
Inhalation:	Inhalation of mists or aerosols will result in respiratory irritation.
ACUTE	
DELAYED	
Additional information	
Aggravated medical conditions caused by exposure	

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY	Low
PERSISTENCE AND DEGRADABILITY	Product not biodegradable - inorganic compound
MOBILITY	
ADDITIONAL INFORMATION	
ENVIRONMENTAL FATE (EXPOSURE)	
BIOACCUMULATIVE POTENTIAL	

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS AND CONTAINERS	Refer to State Land Waste Management Authority. Empty containers must be decontaminated. Normally suitable for disposal at approved land waste site.
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	NA
OHS	Not considered a hazard
Environmental	Not 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 Category	1. Established human carcinogen

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;
LD_{50}	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
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