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Infosafe No™ 3CHKZ

Issue Date :March 2020 RE-IS

RE-ISSUED by AMBERSCI

Product Name **DECALCIFIER** (10% Formic acid)

Classified as hazardous

1. Identification

Chemical Product and Company Identification	Local Supplier: Milton Adams NZ Ltd, 21 Andromeda Crescent, East Tamaki, 2013, Auckland, New Zealand
GHS Product Identifier	DECALCIFIER (10% Formic acid)
Product Code	DECALFA
Company Name	AMBER SCIENTIFIC PTY LTD
Address	24 - 28 Stratton Drive Traralgon Victoria 3844 Australia
Telephone/Fax Number	Tel: (03) 5176 2855
Emergency phone number	CHEMCALL (24 hours): 1800 127 406 (Australia) / +64-4-917-98888 (International)
Recommended use of the chemical and restrictions on use	Laboratory reagent
Other Information	Amber Scientific Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Amber Scientific Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Amber Scientific Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the	Corrosive to Metals: Category 1 Skin Corrosion/Irritation: Category 1B
substance/mixture	
Signal Word (s)	DANGER
Hazard Statement (s)	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.
Pictogram (s)	Corrosion,
Precautionary	P234 Keep only in original container.
statement –	P260 Do not breathe fume/gas/mist/vapours/spray.
Prevention	P264 Washthoroughly after handling.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary	P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
statement – Response	P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all
statement Response	contaminated clothing. Rinse skin with water/shower.
	P363 Wash contaminated clothing before reuse.
	P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a
	position comfortable for breathing.
	P310 Immediately call a POISON CENTER or doctor/physician.
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Presentionany	Remove conta	act lenses, if p spillage to pre		ith water for several minutes. do. Continue rinsing. ge.
Precautionary statement – Storage			istant/ contair	er with a resistant inner liner.
Precautionary statement – Disposal	P501 Dispose regulations		ntainer according	to local, state and federal
3. Composition/inf	formation on i	ngredients		
Ingredients	Name	CA	_	Proportion
	Formic Acid Water to mai 100%	64 ke a total of 77	-18-6 32-18-5	10 %
4. First-aid measu	res			
Inhalation	becoming a of fully recove discolourate respiration	casualty. Make p ered. If breath ion), supply oxy with a respirat	atient comfortable ing is difficult (gen by a qualified ory medical device	fresh air immediately, avoid , keep warm and at rest until or develops a bluish skin person. Apply artificial if not breathing. Do not use ical attention is required.
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.			
Skin	Remove contaminated clothing and wash affected skin with soap and water. If rapid recovery does not occur, obtain medical attention			
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.			
First Aid Facilities	Maintain eye	ewash fountain a	nd safety shower i	n work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.			
Other Information	The patient. If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 13 1126 from anywhere in Australia.			
5. Fire-fighting mo	easures			
Hazards from Combustion Products	to source or On burning,	f ignition and f will emit toxic	lash back. fumes, including	able materials. Vapour may trave oxides of carbon. The packaging
Specific Methods	<pre>material may burn to emit noxious fumes Small fire: Use dry chemical, CO2 or water spray. Large fire: Use water spray, fog or foam - Do NOT use water jets. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside the containers.</pre>			
Specific hazards arising from the chemical	may pollute corrosive ga	waterways. Fir		s may explode when heated. Runof itating, poisonous and/or
Hazchem Code	•2X			
Precautions in connection with Fire	Wear SCBA and chemical splash suit. Fully encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.			
6. Accidental relea	ise measures			
Spills & Disposal	Eliminate a Do NOT touch protective of	h damaged contai	ners or spilled ma	or walk through spilled product. terial unless wearing appropriat so. Prevent entry into waterways
Personal Precautions			n-essential person	nel. Avoid inhalation, contact

Personal Precautions Evacuate the area of all non-essential personnel. Avoid inhalation, contact with skin, eyes and clothing.

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Product Name	DECALCIFIER (109	Formic acid))			
		Classified as 1	nazardous			
Personal Protection	Wear protective cl	Wear protective clothing specified for normal operations (see Section 8)				
Clean-up Methods - Small Spillages	Absorb with dry ea lime or soda ash. labelled drums for Wash area down wit	Use clean nonspa disposal in an	rking tool area appro	s to colle ved by loc	ct and s al autho	eal in properly
7. Handling and s	torage					
Precautions for Safe Handling	Handle and open co inhalation of head Use in a well-vent	space gases.				, avoid
Conditions for safe storage, including any incompatibilities	Store away from so agents. Store awa sealed and protect Metal containers.	y from combustib	le materia	ls. Keep		
Corrosiveness Storage Regulations	Refer Australian S Corrosive Substanc		– 1994 'Th	e Storage	and Hand	lling of
8. Exposure contr	ols/personal protection	1				
Occupational exposure limit values	Name	mg/m3	STEL		AWA	Footnote
	Formic Acid	19	ppm 10	<u>mg/m3</u> 9.4	ppm 5	FOOLIOLE
Other Exposure Information	Safe Work Australi These Workplace Ex occupational healt as low a level as be used as fine di chemicals. They ar The STEL is an exp minutes and should should be at least exposure value at particular substan day working week.	posure Standards h hazards. All a is workable. The viding lines bet e not a measure osure value that not be repeated 60 minutes betw the TWA is the a	are guide tmospheric se workpla ween safe of relativ should no for more een succes verage air	s to be us contamina ce exposur and danger e toxicity t be excee than 4 tim sive expos borne conc	ed in th tion sho e standa ous conc ded for ded for ures at entratic	the control of buld be kept to ards should not centrations of more than 15 day. There the STEL. The on of a
Appropriate engineering controls	Maintain the conce process modificati at the source, or	on, use of local				
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.					
Eye Protection	The use of a face protection as appr be selected and us	opriate. Must c	omply with	Australia		
Hand Protection	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.					
Personal Protective Equipment	Personal protectiv and should only be do not eliminate o protective equipme	used when all o r sufficiently m	ther reaso inimise ri	nably prac sk. Guidan	ticable ce in se	control measures electing personal



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Product Name	DECALCIFIER (10% Formic acid)			
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Hygiene Measures	or other approved standards. Do not eat, drink or smoke in work areas. Wash hands thoroughly after har this material. Maintain good housekeeping.	ndling		
9. Physical and ch	emical properties			
Form	Liquid			
Appearance	Colourless liquid.			
Odour	Strong acrid.			
Solubility in Water	Miscible in all proportions.			
рН	~2.2			
10. Stability and r	reactivity			
Reactivity	Reacts with alkalis and amines. Exothermic reaction.			
Chemical Stability	Stable under normal use conditons.			
Conditions to Avoid	Avoid exposure to heat, direct sunlight, open flames or other sources of ignition.	-		
Incompatible Materials	Oxidisers, metals.			
Hazardous Polymerization	Will not occur.			
11. Toxicological I	Information			
Acute Toxicity - Oral	Formic acid: LD50 730 mg/kg body weight.			
Acute Toxicity - Inhalation	Formic acid: LC50 7.4 mg/L body weight.			
Ingestion	Cause severe burns to the mouth, throat and stomach.			
Inhalation	Inhalation of vapours can cause severe irritation of nose, throat, and up repiratory tract. Inhalation of higher concentrations may cause central nervous system effects and respiratory/lung damage.	oper		
Skin	Causes severe burns. Symptoms may include redness, burning, and swelling skin, burns, and other skin damage.	of		
Eye	Causes severe burns and eye damage. Risk of blindness.			
Respiratory sensitisation	Not classified based on available information.			
Skin Sensitisation	Not classified based on available information.			
Germ cell mutagenicity	Not classified based on available information.			
Carcinogenicity	Not listed in the IARC Monographs.			
Reproductive Toxicity	No evidence of reproductive effects. Not classified based on available information.			
STOT-single	Not classified based on available information.			
exposure STOT-repeated	Not classified based on available information.			
exposure Aspiration Hazard	Not classified based on available information.			
Chronic Effects	Prolonged or repeated exposure to low concentrations may cause skin irritation and burns. Prolonged or repeated exposure may cause liver and kidney damage.			
12. Ecological info				

No ecology data available for this product. Ecological Information Harmful effect due to pH shift. Ecotoxicity



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Environmental

Do not discharge to the environment.

Protection

13. Disposal considerations

Disposal	Whatever cannot be saved for recovery or recycling should be disposed of
Considerations	according to relevant local, state and federal government regulations.

14. Transport information

Transport Information U.N. Number	Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following: Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity. 3412
UN proper shipping name	FORMIC ACID
Transport hazard class(es)	8
Hazchem Code	•2X
Packing Group	II
IERG Number	36

15. Regulatory information

Regulatory Information	All of the significant ingredients in this formulation are compliant with NICNAS regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	Not Scheduled
HSNO Approval Number	HSNO GROUP STANDARD: HSR002596 Laboratory Chemical and Reagent Kits

16. Other Information

Literature References	Commonwealth Department of Health and Aged Care, 'Standard for the Uniform Scheduling of Drugs and Poisons No. 18', Commonwealth of Australia, Canberra 2002.
	Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley & Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Dangerous Goods Code 6th.
	Ed.', AGPS, Canberra, 1998. South Australia Government, 'Approved Code of Practice for the Labelling of Workplace Substances', 1995.
	<pre>Standards Australia, 'SAA/SNZ HB76:1997 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 1997. Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]', AusInfo, Canberra 1999. Worksafe Australia, 'List of Designated Hazardous Substances [NOHSC:10005(1999)]', AusInfo, Canberra 1999.</pre>
	Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]', AGPS, Canberra 1994. Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]', AusInfo, Canberra 1995.
Contact Person/Point	Amber Scientific Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Amber Scientific Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is



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