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Infosafe No™ 3CHI8

Issue Date : March 2020

RE-ISSUED by AMBERSCI

### Product Name : DECALCIFIER Solution 10% Hydrochloric acid

### Classified as hazardous

1 Idontification						
1. Identification GHS Product	DECAL CIFIER Solution 10% Hydrochloric acid					
Identifier	DECALCIFIER Solution 10% Hydrochloric acid					
Product Code	DECA					
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 Recommended use	CHEMCALL (24 hours): 1800 127 406 (Australia) / +64-4-917-98888 (Internalional)					
of the chemical and restrictions on use	1					
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 Identifi	ication					
GHS classification	Corrosive to Metals: Category 1					
of the substance/mixture Signal Word (s)	WARNING					
Hazard Statement	H290 May be corrosive to metals.					
(s) Pictogram (s)	Corrosion					
Precautionary statement –	P234 Keep only in original container.					
Prevention Precautionary statement – Response	P390 Absorb spillage to prevent material damage.					
Precautionary statement – Storage	P406 Store in corrosive resistant container with a resistant inner liner.					
Precautionary statement – Disposal	P501 Dispose of contents/container according to local, state and federal regulations.					
3. Composition/i	nformation on ingredients					
Chemical	Liquid					
Characterization Information on Composition	Aqueous solution of the gas hydrogen chloride.					
Ingredients	Name CAS Proportion Hazard Symbol Risk Phrase					
-	Hydrochloric acid 7647-01-0 10 %v/v					



## Safety Data Sheet

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Product Name :	DECALCIFIER Solu	tion 10% Hydrod	chloric acid		
		Classified as h	azardous		
Ingredients	<u>Name</u>	CAS	<b>Proportion</b>	Hazard Symbol	Risk Phrase
	Water to make a total o	f 100% 7732-18-5	-		
4. First-aid meas					
Inhalation	If inhaled, remove from breathing. If breathing is				
Ingestion	Rinse mouth thoroughly	with water immediat	ely, repeat until all tr	aces of product have	
Skin	DO NOT INDUCE VOM Immediately remove co				ast 15 minutes.
	Ensure contaminated c	lothing is washed bef	ore re-use. Seek me	dical advice /attentior	n depending on the
Eye contact	severity. Treat skin and clothing with 1% sodium bicarbonate solution to neutralize acid residues. 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 eyewash fount	tain and drench facilit	ies in work area.		
Advice to Doctor	Treat symptomatically b	ased on judgement o	of doctor and individu	al reactions of the pa	tient.
Other Information	For advice, contact a Po 766) or a doctor.	oisons Information Co	entre (Phone eg Aust	tralia 13 1126; New Z	ealand 0800 764
5. Fire-fighting m	neasures				
Suitable	Use appropriate fire ext		ding environment. U	se water spray, dry ch	nemical, carbon
	dioxide, or appropriate		oblarida. Can raaatu	with motolo concration	flommoblo
Hazards from Combustion	Irritating and highly toxic hydrogen gas.	c turnes of hydrogen	chloride. Can react v	vith metals generating	j flammable
Products					
Specific Methods	This product contains a extinguishing media wh		n of water therefore	ther are no restriction	s on the type of
Hazchem Code	2R	ich may be used.			
Precautions in connection with Fire	Wear SCBA and acid-re	esistant chemical spla	ash suit.		
6. Accidental rele	ease measures				
Spills & Disposal	In the event of spillage,				
	Adhere to personal prot dispose of as hazardou		ish the remainder wit	h plenty of water. Lat	el container and
Personal	Avoid contact with subs		e vapours.		
Precautions		,	·		
	Use personal protective		Section 8.		
Environmental Precautions	Prevent contamination	of soil and water.			
7. Handling and storage					
	Use only with adequate				
Handling	equipment. Wear appro diluting, the acid should				
	never add water to the	acid. Keep away fror	n incompatibles such	as oxidizing agents,	organic materials,
	metals, alkalis, moisture materials.	e/water. Keep out of o	direct sunlight and av	vay from heat and inc	ompatible
Conditions for safe	Store in original tightly of				
storage, including	floors and good drainag substances (especially				
any incompatabilities	instances with the tech	nical grade products	where there may be o	contamination due to	hydrofluoric acid.
	Containers of this mate	rial may be hazardou	s when empty since	they retain product re	
Corrosiveness	liquid); observe all warr Very corrosive to most i				the most
0010310611622	commonly used corrosi				
	are also resistant to cor	rosion.			
Storage Regulations	Refer Australian Standa	ara AS 3780-1994 'Th	e storage and handli	ing of corrosive subst	ances'.



# Safety Data Sheet

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Infosafe No™	3CHI8	Issue [	Date : March	2020	F	RE-ISSUE	ED by AMBERSCI
Product Name :	DECALCIFIER S	Solution 10%	% Hydrochl	oric acid			
Classified as hazardous							
Storage	Store in a cool plac						
Temperatures		0 (001011 20 0	<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
8. Exposure cont	trols/personal p	rotection					
Occupational	<u>Name</u>		S	TEL	Т	<b>WA</b>	
exposure limit values							
Tuldoo			<u>mg/m3</u>	ppm	<u>mg/m3</u>	ppm	<u>Footnote</u>
	Hydrochloric acid				7.5	5	Hydrogen chloride Peak Limitation
Other Exposure Information	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m3. All atmospheric contamination should be kept to as low a level as is workable. A time weighted average (TWA) has been established for Hydrogen chloride (Worksafe Aust) of 7.5 mg/m <sup>3</sup> (Peak limitation), (5 ppm). The exposure value at the TWA is the average airborne concentration						
Appropriate engineering controls Respiratory Protection	of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.						
Eye Protection	The use of a face s	shield, chemica	l goggles or s				ction as appropriate. rdance with AS 1336.
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						
Personal Protective Equipment	gloves outer surface. Dispose of gloves as hazardous waste. Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New						
Footwear	Zealand or other approved standards. Safety boots in industrial situations is advisory, foot protection should comply with AS 2210,						
Body Protection	Occupational protective footwear - Guide to selection, care and use. Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.						
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.						
9. Physical and c		ties					
Form	Liquid	au vi al					
Appearance	Clear, colourless lic		<u>()</u>				
Odour Malting Daint	Slight, characteristi	ic, irritating odd	our of hydroge	n chioride.			
Melting Point	-18 °C (10%)						
Boiling Point	103 °C (10%)	ntiono with oliv	abt avalution o	fhaat			
Solubility in Water	Soluble in all propo	muons, with slig		i neat.			
Specific Gravity	1.048 (10%) -0 5 (10%)						
рН Услания Висселина	-0.5 (10%) 0.527 Pa (10%)		-0.5 (10%)				
	U.JEI Fa(10%)						
Vapour Pressure	<b>\1</b>						
Vapour Pressure Vapour Density (Air=1) Odour Threshold	>1 1-5 ppm (detectabl	e); 10 ppm (irri	tating)				

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Infosafe No™		Issue Date : March 202				
Product Name : DECALCIFIER Solution 10% Hydrochloric acid						
		Classified as hazardou	JS			
Volatile Component	Hydrogen Ch	loride Gas				
Partition Coefficient	: log Pow: 0.2	5 (concentrated).				
n-octanol/water Flammability	Non combus	tible material.				
Dynamic Viscosity	1.16 mPa·s (					
10. Stability and Chemical Stability		mal temperatures, pressures and condit	tions of use or storage			
-		mal temperatures, pressures and condit ss heat, exposure to moist air or water a	-			
			-			
Incompatible Materials Hazardous Decomposition Products	Metals, bases (e.g. sodium hydroxide, amines), aldehydes, epoxides, reducing agents, oxidizing agents, permanganates, explosives, acetylides, borides, carbides, silicides, cyanides, sulfides and phosphide. Hydrogen chloride gas. Hydrogen chloride is thermally stable up to temperatures of about 1500 °C.					
Possibility of		its of heat can be released when concer	ntrated HCI is mixed with water or with organic			
hazardous reactions	Can react with Reacts violen Reaction with Reaction with May react with May react with May react with May react with	n reducing agents may produce heat, fire h oxidizing agents, generating heat and explosives may generate heat which co	amines), generating heat and pressure. Ident polymerization, generating heat and pressure. e and flammable hydrogen gas. I toxic or corrosive chloride gases. Juld cause detonation. s, producing flammable gas (e.g., acetylene). gas (HCN or H2S).			
11. Toxicological	I Informatio	n				
Ingestion		tion to mouth,throat and stomach.				
Inhalation		cause irritation to the mucous membran	es of the respiratory tract, with sore throat and			
Skin	coughing. Liquid is sligl	ntly to highly irritating to skin and may ca	ause burns.			
Eye	Liquid is irrita	ting to highly irritating to eyes and may	cause scarring of the cornea (based on animal			
Carcinogenicity	Hydrochloric	r may cause eye irritation. acid [7647-01-0] is evaluated in the IAR s to carcinogenicity to humans.	C Monographs (Vol. 54; 1992) as Group 3: Not			
Mutagenicity	No human in		sitive results reported in some short-term tests. ts.			
12. Ecological in	formation					
Ecotoxicity Environmental Protection	The following shift. Does not		uatic organisms. Harmful effect due to pH shift. ct on aquatic organisms. Harmful effect due to pH			
13. Disposal considerations						
Disposal Considerations	Dispose of a	ccording to relevant local, state and fede	eral government regulations.			
14. Transport inf	ormation					
Transport Information	Class 1, Clas	s 4.3, Class 5, Class 6, if the Class 6 da	atible in a placard load with any of the following: angerous goods are cyanides and the Class 8 patible with food and food packaging in any quantity.			
U.N. Number	1789	$\frac{1}{1000}$ are acros, class $i$ , and are incomp	sanore with root and root packaging in any qualities.			
UN proper shipping name	HYDROCHL	ORIC ACID				
Transport hazard class(es)	8					



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Infosafe No™ **RE-ISSUED by AMBERSCI** 3CHI8 Issue Date : March 2020 **DECALCIFIER Solution 10% Hydrochloric acid** Product Name : Classified as hazardous 2R Hazchem Code **Packaging Method** 3.8.8RT8 Packing Group Ш **EPG Number** 8A1 **IERG Number** 40 15. Regulatory information **Poisons Schedule** S6 16. Other Information Literature 'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, References Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Chemical Information System, 2005'. Safe Work Australia, National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'. Amber Scientific Pty Ltd does not warrant that this product is suitable for any use or purpose. The user Contact must ascertain the suitability of the product before use or application intended purpose. Preliminary Person/Point 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. Empirical Formula & CI-H; HCI-H2O; HCI-3H2O; HCI-6H2O. (There are four constant-crystallization eutectic points for hydrochloric acid, between the crystal form of HCI H2O (68% HCI), HCI 2H2O (51% HCI), HCI 3H2O **Structural Formula** (41% HCl), HCl 6H2O (25% HCl), and ice (0% HCl). There is also a metastable eutectic point at 24.8% between ice and the HCI·3H2O crystallization.) ... End Of MSDS ... © Copyright ACOHS Pty Ltd

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