

SDI Limited

Version No: 6.1 Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017 Issue Date: **10/03/2021** Print Date: **22/11/2023** L.GHS.NZL.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier	
Product name	Super Etch, Super Etch LV
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	PHOSPHORIC ACID, SOLUTION
Chemical formula	Not Applicable
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses For etching of tooth surfaces by dental professionals.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	SDI Limited	SDI (North America) Inc.	SDI Germany GmbH
Address	3-15 Brunsdon Street Bayswater VIC 3153 Australia	1279 Hamilton Parkway Itasca IL 60143 United States	Hansestrasse 85 Cologne D-51149 Germany
Telephone	+61 3 8727 7111	+1 630 361 9200	+49 0 2203 9255 0
Fax	+61 3 8727 7222	Not Available	+49 0 2203 9255 200
Website	www.sdi.com.au	www.sdi.com.au	www.sdi.com.au
Email	info@sdi.com.au	USA.Canada@sdi.com.au	germany@sdi.com.au
Registered company name	Registered company name SDI HOLDINGS PTY LTD DO		
Address	Rua Dr. Reinaldo Schmithausen 3141 – Cordeiros Itajaí – SC – CEP 88310-004 Brazil		
Telephone	+55 11 3092 7100		
Fax	Not Available		
Website	http://www.sdi.com.au/		
Email	Brasil@sdi.com.au		

Emergency telephone number

Association / Organisation	SDI Limited	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	131126 Poisons Information Centre	+64 800 700 112
Other emergency telephone numbers	+61 3 8727 7111	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture	
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Classification ^[1]	Corrosive to Metals Category 1, Acute Toxicity (Oral) Category 5, Skin Corrosion/Irritation Category 1A, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the Aquatic Environment Acute Hazard Category 2, Hazardous to Terrestrial Vertebrates	
Legend:	Legend: 1. Classification by vendor; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
Gazetted by EPA New Zealand	8.1A, 6.1E (oral), 8.2A, 8.3A, 9.1D, 9.3C	

Label elements

Hazard pictogram(s)

Signal word Danger

Hazard statement(s)

H290	May be corrosive to metals.
H303	May be harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H401	Toxic to aquatic life.
H433	Hazardous to terrestrial vertebrates.

Precautionary statement(s) Prevention

P260	Do not breathe mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P234	Keep only in original packaging.
P273	Avoid release to the environment.

Precautionary statement(s) Response

P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If more than 15 mins from Doctor, INDUCE VOMITING (if conscious).
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/physician/first aider.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary statement(s) Storage

P405 Store locked up.

Precautionary statement(s) Disposal

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
7664-38-2	37	phosphoric acid
Legend:	1. Classification by vendor; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor. Seek medical attention.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

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Super Etch, Super Etch LV

Rinse mouth with water.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).Carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
Advice for firefighters	

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use fire fighting procedures suitable for surrounding area. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	 Non combustible. Not considered to be a significant fire risk. Acids may react with metals to produce hydrogen, a highly flammable and explosive gas. Heating may cause expansion or decomposition leading to violent rupture of containers. May emit corrosive, poisonous fumes. May emit acrid smoke. Decomposition may produce toxic fumes of: phosphorus oxides (POx)

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material. Check regularly for spills and leaks. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralise/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling		
Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with moisture. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. 	

	 Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Other information	Store between 10 and 25 deg. C. Store in a cool dry place.

Conditions for safe storage, including any incompatibilities

Suitable container	DO NOT repack. Use containers supplied by manufacturer only.	
Storage incompatibility	 Avoid strong bases. Avoid contact with copper, aluminium and their alloys. 	

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	phosphoric acid	Phosphoric acid	1 mg/m3	Not Available	Not Available	Not Available
Emergency Limits						
Ingredient	TEEL-1		TEEL-2		TEEL-3	
phosphoric acid	Not Available		Not Available		Not Available	
Ingredient	Original IDLH			Revised IDLH		
phosphoric acid	1,000 mg/m3			Not Available		

MATERIAL DATA

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Exposure controls
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xposure controls						
	 Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strat "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design or ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances. If r overexposure exists, wear approved respirator. Supplied-air type respirator may be required in special circumstances. Correct fit is essee ensure adequate protection. Provide adequate ventilation in warehouses and enclosed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effective remove the contaminant. 					
	Type of Contaminant:		Air Speed:			
	solvent, vapours, degreasing etc., evaporating from tank (in	0.25-0.5 m/s (50-100 f/min)				
Appropriate engineering	aerosols, fumes from pouring operations, intermittent conta drift, plating acid fumes, pickling (released at low velocity in	0.5-1 m/s (100-200 f/min.)				
controls	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)				
	grinding, abrasive blasting, tumbling, high speed wheel ger very high rapid air motion)	2.5-10 m/s (500-2000 f/min.)				
	Within each range the appropriate value depends on:					
	Lower end of the range	Upper end of the range				
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents				
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity				
	3: Intermittent, low production.	duction. 3: High production, heavy use				
	4: Large hood or large air mass in motion	4: Large hood or large air mass in motion 4: Small hood-local control only				
Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally dec with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjuster accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a m 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical consi						

With the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical consideratio producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Individual protection measures, such as personal protective equipment



Eye and face protection	 Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irritgation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber Rubber Gloves
Body protection	See Other protection below
Other protection	 Overalls. PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit. Ensure there is ready access to a safety shower.

Ansell Glove Selection

AlphaTec 02-100

AlphaTec® 58-008 AlphaTec® 58-530W AlphaTec® 58-530W AlphaTec® 58-735 AlphaTec® 79-700 AlphaTec® 38-612 AlphaTec® 53-001

AlphaTec® Solvex® 37-675

AlphaTec® Solvex® 37-185

Glove — In order of recommendation

Respiratory protection

Type B-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	B-AUS P2	-	B-PAPR-AUS / Class 1 P2
up to 50 x ES	-	B-AUS / Class 1 P2	-
up to 100 x ES	-	B-2 P2	B-PAPR-2 P2 ^

The suggested gloves for use should be confirmed with the glove supplier.

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Information on basic physical	· ·		
Appearance	Blue gel with acrid odour, mixes with water.		
Physical state	Gel	Relative density (Water = 1)	1.3
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	<1	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

 Reactivity
 See section 7

 Chemical stability

 Contact with alkaline material liberates heat

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Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.		
Ingestion	The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion. Accidental ingestion of the material may be damaging to the health of the individual.		
Skin Contact	The material can produce chemical burns following direct contact with the skin. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating. When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation.		
Chronic	Limited evidence suggests that repeated or long-term occupational expo- biochemical systems. Repeated or prolonged exposure to acids may result in the erosion of tee (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks o also occur. Chronic exposures may result in dermatitis and/or conjunctivi The impact of inhaled acidic agents on the respiratory tract depends upo characteristics, e.g., gas versus aerosol; particle size (small particles car are more likely to be removed in the nose and mouth). Given the general occupational exposures to acids, it is difficult to identify their principal dep with a diameter of up to a few micrometers will be deposited in both the u cause dental erosion, and they produce acute effects in the lungs (sympt particular risk for pulmonary effects.	eth, inflammatory and ulcerative changes in the mouth and necrosis f bronchial pneumonia may ensue. Gastrointestinal disturbances may tis. n a number of interrelated factors. These include physicochemical openetrate deeper into the lung); water solubility (more soluble agents lack of information on the particle size of aerosols involved in position site within the respiratory tract. Acid mists containing particles apper and lower airways. They are irritating to mucous epithelia, they	
Super Etch, Super Etch LV	ΤΟΧΙΟΙΤΥ	IRRITATION	
Super Etch, Super Etch LV	Not Available	Not Available	

	TOXICITY IRRITATION		
phosphoric acid	Dermal (rabbit) LD50: >1260 mg/kg ^[2] Eye (rabbit): 119 mg - SEVERE [Monsanto]*		
	Inhalation(Rat) LC50: 0.026 mg/L4h ^[2] Eye: adverse effect observed (irritating) ^[1]		
	Oral (Rat) LD50: 1530 mg/kg ^[2] Skin (rabbit):595 mg/24h - SEVERE		
	Skin: adverse effect observed (corrosive) ^[1]		
Legend:	 Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances 		

PHOSPHORIC ACID	 phosphoric acid (85%) No significant acute toxicological for acid mists, aerosols, vapours Data from assays for genotoxic activity in vitro suggest the Cells from the respiratory tract have not been examined exposure to inhaled acidic mists, just as mucous plays a acid. In considering whether pH itself induces genotoxic stomach, in which gastric juice may be at pH 1-2 under f urine can range from <5 to > 7 and normally averages 6. only a portion of the cell surface is subjected to the adver readily than in vitro. The material may produce severe irritation to the eye can produce conjunctivitis. The material may produce severe skin irritation after proform of dermatitis is often characterised by skin redness Histologically there may be intercellular oedema of the sunlikely, given the severity of response, but repeated explasthma-like symptoms may continue for months or even known as reactive airways dysfunction syndrome (RADS criteria for diagnosing RADS include the absence of prevasthma-like symptoms within minutes to hours of a docu airflow pattern on lung function tests, moderate to severe lymphocytic inflammation, without eosinophilia. RADS (of the concentration of and duration of exposure to the irritating disorder is characterized by difficulty breathing, cough and severe is a concentration of and duration of a docu airflow pattern on lung function tests, moderate to severe lymphocytic inflammation, without eosinophilia. RADS (of the concentration of and duration of exposure to the irritation of and duration of exposure to the irritation of and the irritation of and duration of exposure to the irritation of an	hat eukaryotic cells are susceptible to in this respect. Mucous secretion man n important role in protecting the gasi events in vivo in the respiratory syste asting or nocturnal conditions, and wi 2. Furthermore, exposures to low pH rse conditions, so that perturbation of using pronounced inflammation. Reper- longed or repeated exposure, and ma (erythema) thickening of the epiderm pongy layer (spongiosis) and intracell bosures may produce severe ulceration years after exposure to the material b) which can occur after exposure to the vious airways disease in a non-atopic mented exposure to the irritating inhala ating substance. On the other hand, in substance (often particles) and is co	y protect the cells of the airways from direct tric epithelium from its auto-secreted hydrochloric im, comparison should be made with the human ith the human urinary bladder, in which the pH of in vivo differ from exposures <i>in vitro</i> in that, <i>in vivo</i> , f intracellular homeostasis may be maintained more eated or prolonged exposure to irritants may ay produce a contact dermatitis (nonallergic). This is. lular oedema of the epidermis. Prolonged contact is on. ends. This may be due to a non-allergic condition high levels of highly irritating compound. Main individual, with sudden onset of persistent r criteria for diagnosis of RADS include a reversible holine challenge testing, and the lack of minimal ation is an infrequent disorder with rates related to ndustrial bronchitis is a disorder that occurs as a
Acute Toxicity	✓	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	×

Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
			t available or does not fill the criteria for classification to make classification

SECTION 12 Ecological information

Toxicity

e Source	۱ ۱	Endpoint Test Duration (hr) Species		Endpoint	
Not Available	1	Not Available	Not Available	Not Available	Super Etch, Super Etch LV
Source	Value	Species	Test Duration (hr)	Endpoint	
2	77.9mg/	Algae or other aquatic plants	72h	EC50	
2	Crustacea >100m		48h	EC50	phosphoric acid
img/L 4	67.94-113.76mg/L		96h	LC50	
2	<7.5mg/	Algae or other aquatic plants	72h	NOEC(ECx)	
ity 4. U	<7.5mg/ prmation - Aquatic	Fish Algae or other aquatic plants ed Substances - Ecotoxicological Inform ard Assessment Data 6. NITE (Japan) -	72h 1. IUCLID Toxicity Data 2. Europe ECH	NOEC(ECx) Extracted from Ecotox databas	Legend:

DO NOT discharge into sewer or waterways.

Persistence and degradability

phosphoric acid HIGH HIGH	Ingredient	Persistence: Water/Soil	Persistence: Air
	phosphoric acid	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
phosphoric acid	LOW (LogKOW = -0.7699)
prospriorio dold	

Mobility in soil

Ingredient	Mobility
phosphoric acid	HIGH (KOC = 1)

SECTION 13 Disposal considerations

	 DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible.
Product / Packaging disposal	Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
	Treat and neutralise at an approved treatment plant. Treatment should involve: Mixing or slurrying in water; Neutralisation followed by: buria in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material)
	Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous. Only dispose to the environment if a tolerable exposure limit has been set for the substance.

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

SECTION 14 Transport information

Labels Required

	R R R R R R R R R R R R R R R R R R R
Marine Pollutant	NO
HAZCHEM	2R

Land transport (UN)

14.1. UN number or ID number	1805	1805	
14.2. UN proper shipping name	PHOSPHORIC ACID, S	PHOSPHORIC ACID, SOLUTION	
14.3. Transport hazard class(es)	Class Subsidiary Hazard		
14.4. Packing group	III		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions223Limited quantity5 L		

Air transport (ICAO-IATA / DGR)

14.1. UN number	1805		
14.2. UN proper shipping name	Phosphoric acid, solution		
	ICAO/IATA Class	8	
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable	
class(es)	ERG Code	8L	
14.4. Packing group	III		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions		A3 A803
	Cargo Only Packing Instructions		856
	Cargo Only Maximum Qty / Pack		60 L
	Passenger and Cargo Packing Instructions		852
	Passenger and Cargo Maximum Qty / Pack		5 L
	Passenger and Cargo Limited Quantity Packing Instructions		Y841
	Passenger and Cargo Limited Maximum Qty / Pack		1 L

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1805		
14.2. UN proper shipping name	PHOSPHORIC ACID SOLUTION		
14.3. Transport hazard class(es)	IMDG Class 8 IMDG Subsidiary Hazard Not Applicable		
14.4. Packing group	III		
14.5 Environmental hazard	Not Applicable		
14.6. Special precautions for user	EMS NumberF-A, S-BSpecial provisions223Limited Quantities5 L		

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
phosphoric acid	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type

Product name	Ship Type
phosphoric acid	Not Available

If packed as Chemical kits the following classification may be considered if all ICAO/IATA transport requirements are met: Chemical Kit UN3316 - Class 9, SP A44 & A163.

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance can be managed under the controls specified in the Transfer Notice or alternatively it may be managed using the conditions specified in an applicable Group Standard.

HSR Number	Group Standard
HSR001545	Not Applicable

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

phosphoric acid is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

- New Zealand Hazardous Substances and New Organisms (HSNO) Act Classification of Chemicals
- New Zealand Hazardous Substances and New Organisms (HSNO) Act Classification of Chemicals Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

Additional Regulatory Information

Not Applicable

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantity (Compliance Certificate)	Quantity (Compliance Certificate - Farms >4 ha)	
8.2A	50 kg or 50 L	500 kg or 500 L	

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
8.2A	prohibited	prohibited	prohibited	

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (phosphoric acid)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

end of SDS

Revision Date	10/03/2021
Initial Date	17/11/2015

SDS Version Summary

Version	Date of Update	Sections Updated	
5.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification	
6.1	10/03/2021	Hazards identification - Classification	

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by SDI Limited using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

- PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit.
- ► IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
 LOAEL: Lowest Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect
 TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
 INSO: Inventoria Nacional de Sustancias Ouímica
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

The information contained in the Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.

Other information:

Prepared by: SDI Limited 3-15 Brunsdon Street, Bayswater Victoria, 3153, Australia Phone Number: +61 3 8727 7111 Department issuing SDS: Research and Development Contact: Technical Director