

DONAGHYS PERFORMANCE FIRST SAFETY DATA SHEET

SDS Thermoflush	Date: 28/0	1/2025	Version No: 2.0	Page 1 of 6
Section 1 – Identification of the substance/preparation and the company				
Product Name:	Ther	moflush		
Company:	_	aghys Ltd		
Address:		heffield Crescent		
		Box 20 449		
Christchurch				
Telephone Number: 0800 942 006				
Manufacturer Product Co	de: ATF)200		
Recommended Use:	Acid	milkstone and scale remover.		
	Section 2 – H	azard Identificat	ion	
GHS Classifications:	Acute oral toxi	city Category 4		
		etals Category 1		
	Skin corrosion	• •		
		amage Category 1	ment chronic Category	/ 4
	Hazardous to the aquatic environment chronic Category 4 Hazardous to terrestrial vertebrates			
GHS Pictograms:	$\mathbf{\wedge}$	~		
ee				
		× *		
		\checkmark		
Hazard Statements:	H302	Harmful if swallo	wed	
	H290	May be corrosive		
	H314		kin burns and eye dam	nage
	H318	Causes serious		(
	H413	life	lasting harmful effects	to aquatic
			restrial vertebrates	
Prevention Statements:	P102	Keep out of read		
Trevention Statements.	P103	Read label befor		
	P234	Keep only in orig		
	P260		lust/fume/gas/mist/vapo	ours/spray
	P264		roughly after handling	
	P270 P273		or smoke when using the environment	this product
	P273 P280		gloves/protective clothi	na/eve
	1200	protection/face p		ng/cyc
Response Statements:	P101		e is needed, have produ	uct containe
		or label at hand.		
	P301 + P312		D: Call a POISON CEN	TER or
	D220		if you feel unwell	
	P330 P390	Rinse mouth.	to prevent material dam	nade
	P301 + P330		D: Rinse mouth. Do NO	
	+ P331	vomiting.		
	P303 + P361		nair): Remove/Take off	
	+ P353		clothing. Rinse skin wi	th
		water/shower.		



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Response Statements: (Continued)	P363 P304 + P340 P310 P305 + P351 + P338 P310	IF INHALED: Re in a position com Immediately call doctor/physician. IF IN EYES: Rins minutes. Remove easy to do. Cont	se cautiously with wa e contact lenses, if p inue rinsing. a POISON CENTEF	d keep at rest g. < or ater for several resent and
Storage:	P405 P406	Store locked up Store in corrosive resistant inner lin	e resistant/container ier	with a
Signal Word:	DANGER			
EPA NZ Approval Code:	HSR002526 Cleaning Prod	ucts (Corrosive) G	roup Standard	
Section 2 Composition Information				

Section 3 – Composition Information

Chemical Entity	CAS No.	Content [%]
Phosphoric Acid	7664-38-2	10-30%
Glycolic Acid	79-14-1	1-10%
Dodecyl Di (Amino Ethyl) Glycine	6843-97-6	1-10%

Section 4 – First Aid Measures

If Swallowed:	Harmful if swallowed. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE or doctor/physician. If medical advice is needed, have product container or label at hand.
If in eyes:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so, continue rinsing. Immediately call a POISON CENTRE or doctor / physician.
lf on skin:	Remove immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before re-use. If irritation persists, contact a POISON CENTRE or doctor/physician.
If inhaled:	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms, immediately call a POISON CENTRE or doctor / physician.
Advice to Doctor:	Treat symptomatically.

If medical advice is needed, have product container or label at hand. POISON CENTRE CONTACT: 0800 764 766 (National Poisons Information Centre)



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Section 5 – Fire-fighting Measures			
Flashpoint:	Not applicable		
Combustion Products:	Decomposes on heating		
	carbon monoxide (CO). fumes. Other decompos		
	phosphorus oxides (POx (NOx)), chlorides and nitro	gen oxides
Flammability Limits:	Not applicable		
Protective Equipment:	Breathing apparatus, fac and neoprene rubber glo		goggles,
Extinguishing Media:	Based on surrounding m	aterials	
Special Fire Fighting Methods	: None		
Section	n 6 – Accidental Release M	easures	
Spills and Disposal:	MAJOR SPILLS Slippery when spilt. Minor h		
	1: Clear area of personnel.		
	2: Alert Fire Brigade and tel	I them location and na	ature of
	hazard. 3: Control personal contact by using protective equipment as		
	required.	oring drains or water	1010
	4: Prevent spillage from entering drains or waterways.5: Contain spill with sand, earth or vermiculite.		
	Collect recoverable product into labelled containers for recycling.		
	7: Absorb remaining product with sand, earth or vermiculite		
	to prevent material damage and place in appropriate		
	containers for disposal. 8: Wash area and prevent runoff into drains or waterways.		
	9: If contamination of drains or waterways occurs, advise emergency services.		
	Minor Spills:		
	Slippery when spilt.		
	1: Clean up all spills immed 2: Avoid breathing vapours		and eves.
	3: Control personal contact	by using protective e	quipment.
	4: Contain and absorb spill vermiculite.	with sand, earth, iner	t material or
	5: Wipe up.		
	6: Place in a suitable labelle	ed container for waste	e disposal.
	Disposal: 1: Recycle wherever possib recycling options.	le or consult manufac	cturer for
	2: Consult State Land Wast disposal.	e Management Autho	ority for
	3: Treat and neutralise with	slaked lime at an effl	uent
	treatment plant. 4: Recycle containers, othe	wise dispose of in an	authorised
	landfill.		



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Protective Equipment:Wear neoprene gloves and boots, overalls and fac protectionEnvironmental Precautions:Avoid entry into waterways or streams. Prevent waterways		washings		
		from entering waterways. Absorb spillage to prevent material damage.		
	Se	ction 7– Handling and Stor	age	
Storage:	Store in corros Plastic carboy	DNTAINER r polypropylene container. ive resistant/container with a Plastic drum Polyliner drum ainers are clearly labelled and		
	Segregate from	ICOMPATIBILITY om alkalies, oxidising agents and chemicals readily by acids, i.e. cyanides, sulfides, carbonates.		
	1: Store in lock 2: Keep contain 3: Store in a co 4: Store away 5: Protect cont	ORAGE REQUIREMENTS Store in locked up in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe storing and handling recommendations on label.		
Handling:	Wear eye / fac In case of inad Contaminated	t handle until all safety instructions have been read and understood. eye / face protection. e of inadequate ventilation wear respiratory protection. minated work clothing should not be allowed out of the workplace. release to the environment. Absorb spillage to prevent material		

Section 8 – Exposure Controls/Personal Protection

These precautions are suggested for conditions where the potential for exposure to the product exists. Emergency conditions may require additional precautions.

Exposure Limits:	None assigned. Refer to individual constituents. <phosphoric acid=""> TLV TWA: 1 mg/m3; STEL: 3 mg/m3 ES TWA: 1 mg/m3; STEL: 3 mg/m3 OES STEL: 2 mg/m3 IDLH Level: 1000 mg/m3</phosphoric>
Protective Equipment:	Observe good workplace practices and avoid contact with skin and eyes. Wear overalls, safety glasses and neoprene gloves when handling. Wear eye / face protection. In case of inadequate ventilation wear respiratory protection.
Hygiene Precautions:	Do not eat, drink or smoke when using this product.
Engineering Controls:	General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas.



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Section 9 – Physical and Chemical Properties

Appearance: Odour: **Specific Gravity:** pH: Vapour Pressure: Flash Point: Autoignition Temperature: Flammability Limits: Solubility:

Purple liquid Acidic odour 1.4 N/Av N/Av N/App N/App N/App Soluble in water

Section 10 – Stability and Reactivity

Stability:	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to Avoid:	None
Materials to Avoid:	Alkali (basic) chemicals, natural rubber
Hazardous Decomposition Products:	None

Section 11 – Toxicological Information

No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Ingestion:	The concentrate is slightly toxic, harmful if swallowed and is capable of causing burns to mouth, throat, oesophagus, with extreme discomfort, pain and nausea. Breathing will be difficult, and acidosis, convulsions and collapse may occur. Considered an unlikely route of entry in commercial/industrial environments.
Inhalation:	The vapour/mist is slightly toxic and highly discomforting to the upper respiratory tract and may cause breathing difficulty. Exposure to high concentrations causes bronchitis and is characterised by the onset of haemorrhagic pulmonary oedema.
Dermal:	The concentrate is highly discomforting to the skin and is capable of causing skin reactions which may lead to dermatitis and may cause skin sensitisation and burns if exposure is prolonged. Bare unprotected skin should not be exposed to this material. The material may produce severe skin irritation after prolonged or repeated exposure and may produce a contact dermatitis nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to vesiculation, scaling and thickening of the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. Prolonged contact is unlikely, given the severity of response, but repeated exposures may produce severe ulceration.
Ocular:	The concentrate is corrosive to the eyes and is capable of causing burns if exposure is prolonged. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.





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Chronic Effects: No significant health effects could be found. This material is not considered to be a carcinogen or mutagen, and no reproductive effects have been identified.			
	Section 12 - Ecological Info	ormation	
ERMA Classification:	ERMA Classification: May cause long lasting harmful effects to aquatic life. Hazardous to terrestrial vertebrates.		
Ecotoxicity:	May be harmful to aquatic life. H	Hazardous to terrestrial invertebrates	
Bioaccumulation:	Product contains bioaccumulation ingredients	ve and ecologically persistent	
	Section 13 – Disposal Consi	iderations	
Product and Container disposal:	Container Preferably dispose of product by use. Otherwise dispose of product, packaging and waste at an approved landfill or equivalent facility in accordance with local, regional, and national environmental regulations. Donaghys is a member of Agrecovery Container Recycling programme. For details on how to correctly prepare your container and collection sites please visit www.agrecovery.co.nz.		
	Section 14 – Transport Info	ormation	
Proper Shipping Name	Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains Phosphoric Acid & Glycolic Acid)		
UN Number:	3264		
DG Class:	8		
Subsidiary Risk Class:	: None		
Packing Group:	III		
HAZCHEM Code:	2X		
Section 15 – Regulatory Information			
	EPA NZ Registration Code: HSR002526 See http://www.epa.govt.nz for approval conditions		
NZFSA Approval Number: H1030			
Section 16 – Other Information			

The information in this MSDS is provided in good faith, but no warranty, expressed or implied is made. Contact Donaghys Ltd for more information.

EMERGENCY CONTACT No.: 0800 764 766 (National Poisons Information Centre)