

DONAGHYS PERFORMANCE FIRST DATA SHEET

SDS Thermoflush Date: 29.09.2020 Version No:1.0 Page 1 of 5 Section 1 – Identification of the substance/preparation and the company Product Name: Thermoflush Company: Donaghys Ltd Address: 16 Sheffield Crescent PO Box 20 449 Christchurch 0800 942 006 **Telephone Number: Recommended Use:** Acid milkstone and scale remover. Section 2 – Hazard Identification Hazard Classes: 6.1D Harmful if swallowed 8.1A May be corrosive to metals Causes serious skin burns and eye damage 8.2C 8.3A Causes severe eye damage May cause long lasting harmful effects to aquatic 9.1D life 9.3C Harmful to terrestrial vertebrates **EPA NZ Approval Code:** HSR002526 Cleaning Products (Corrosive) Group Standard Section 3 – Composition Information **Chemical Entity** CAS No. Content [%] Phosphoric Acid 7664-38-2 63% Glycolic Acid 79-14-1 1-10% Dodecyl Di (Amino Ethyl) Glycine 2372-82-9 1-10% Section 4 – First Aid Measures If Swallowed: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTRE or doctor/physician. 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. If on skin: Take off all contaminated clothing immediately. Rinse skin and/or hair with water/shower. Wash contaminated

clothing before re-use. If feeling unwell, contact a
POISON CENTRE or doctor/physician.If inhaled: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.

POISON CENTRE CONTACT: 0800 764 766 (National Poisons Information Centre)



DONAGHYS PERFORMANCE FIRST SAFETY DATA SHEET

SDS Thermoflush	Date: 29.09.2020 Version No:1.0 Page 2 of 5		
	Section 5 – Fire-fighting Measures		
Flashpoint: Combustion Products:	Not applicable Decomposes on heating and may produce toxic fumes of carbon monoxide (CO). May emit acrid smoke and toxic fumes. Other decomposition products include phosphorus oxides (POx), chlorides and nitrogen oxides (NOx)		
Flammability Limits:	Not applicable		
Protective Equipment:	Breathing apparatus, face shield or protective goggles, and		
	neoprene rubber gloves and boots		
Extinguishing Media:	Based on surrounding materials		
Special Fire Fighting Methods:	None		
wethous:			
Se	ection 6 – Accidental Release Measures		
Spills and Disposal:	MAJOR SPILLS		
	Slippery when spilt. Minor hazard. 1: Clear area of personnel.		
	2: Alert Fire Brigade and tell them location and nature of		
	hazard.		
	3: Control personal contact by using protective equipment as		
	required.		
	4: Prevent spillage from entering drains or waterways.		
	5: Contain spill with sand, earth or vermiculite.6: Collect recoverable product into labelled containers for		
	recycling.		
	7: Absorb remaining product with sand, earth or vermiculite 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 immediately. 2: Avoid breathing vapours and contact with skin and eyes.		
	3: Control personal contact by using protective equipment.		
	4: Contain and absorb spill with sand, earth, inert material or		
	vermiculite.		
	5: Wipe up.		
	6: Place in a suitable labelled container for waste disposal.		
Protective Equipment:	Wear neoprene gloves and boots, overalls and face/eye protection		
Environmental	Avoid entry into waterways or streams. Prevent washings from		
Precautions:	entering waterways.		
	Operation 7. Handling and Otenang		
	Section 7– Handling and Storage		
Storage:	SUITABLE CONTAINER		
	Polyethylene or polypropylene container.		
	Plastic carboy Plastic drum Polyliner drum		
	Check all containers are clearly labelled and free from leaks.		



DONAGHYS SAFETY DERFORMANCE FIRST DATA SHEET

SDS Thermoflush	Date: 29.09.2020	Version No:1.0	Page 3 of 5
s d 1 2 3 4 0 5	 Date: 29.09.2020 Version No:1.0 Page 3 of 5 TORAGE INCOMPATIBILITY egregate from alkalis, oxidising agents and chemicals readily ecomposed by acids, i.e. cyanides, sulphides, carbonates. TORAGE REQUIREMENTS : Store in original containers. : Keep containers securely sealed. : Store in a cool, dry, well-ventilated area. : Store away from incompatible materials and foodstuff ontainers. : Protect containers against physical damage and check equilarly for leaks. 		
	Observe storing and handling	g recommendations	on label.
u V Ii C W	to not handle until all safety in nderstood. Vear eye / face protection. In case of inadequate ventilatio Contaminated work clothing sh vorkplace. Invoid release to the environme	n wear respiratory ploud not be allowed o	rotection.

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 work place 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: Engineering Controls:	Do not eat, drink or smoke when using this product. 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.

Section 9 – Physical and Chemical Properties

Appearance:	Purple liquid
Odour:	Acidic odour
Specific Gravity:	1.2-1.5
pH:	N/A
Vapour Pressure:	N/A
Flash Point:	N/A



DONAGHYS PERFORMANCE FIRST SAFETY DATA SHEET

SDS Thermoflush	Date: 29.09.2020	Version No:1.0	Page 4 of 5
Autoignition Temperature: Flammability Limits: Solubility:	N/A N/A 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, nat	ural rubber	
Hazardous Decomposition	None		
Products:	NONC		
Section 11 – Toxicological Information			

No adverse health effects 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.
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.



DONAGHYS PERFORMANCE FIRST SAFETY DATA SHEET

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SDS Thermoflush	Date: 29.09.2020	Version No:1.0	Page 5 of 5
		-	
See	ction 12 - Ecological Informa	tion	
ERMA Classification: Ecotoxicity: Bioaccumulation:	9.1D, 9.3C May cause long lasting harmful effects to aquatic life. Harmful to terrestrial vertebrates. Product contains bioaccumulative and ecologically persistent ingredients		
Sect	ion 13 – Disposal Considera	tions	
Product Disposal:	Preferably dispose of product product, packaging and was equivalent facility in accorda national environmental regul of Agrecovery Container Reg on how to correctly prepare sites please visit www.agrec	et by use. Otherwise te at an approved la nce with local, regio ations. Donaghys is cycling programme. your container and	andfill or onal and a member For details
Se	ction 14 – Transport Informa	tion	
Proper Shipping Name:	UN3264 CORROSIVE LIQU N.O.S. (Contains Phosphoric	ID, ACIDIC, INORG	GANIC,
UN Number: DG Class: Subsidiary Risk Class: Packing Group: HAZCHEM Code:	3264 8 None III 2X	, , , , , , , , , , , , , , , , , , ,	
Section 15 – Regulatory Information			
EPA NZ Registration Code: NZFSA Approval Number:	HSR002526 See <u>http://www.epa.govt.nz</u> H1030	for approval condition	ons

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)