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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

Telephone Number: 0800 942 006 **Manufacturer Product Code:** ATF0200

Recommended Use: Acid milkstone and scale remover.

Section 2 - Hazard Identification

GHS Classifications: Acute oral toxicity Category 4

> Corrosive to metals Category 1 Skin corrosion Category 1C Serious eve damage Category 1

Hazardous to the aquatic environment chronic Category 4

Hazardous to terrestrial vertebrates

GHS Pictograms:



Hazard Statements: H302 Harmful if swallowed

> H290 May be corrosive to metals

Causes severe skin burns and eye damage H314

H318 Causes serious eye damage

H413 May cause long lasting harmful effects to aquatic

life

Hazardous to terrestrial vertebrates

Prevention Statements: P102 Keep out of reach of children

> Read label before use P103

P234 Keep only in original container

Do not breathe dust/fume/gas/mist/vapours/spray P260

P264 Wash hands thoroughly after handling

Do not eat, drink or smoke when using this product P270 P273

Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye

protection/face protection

Response Statements: P101 If medical advice is needed, have product container

or label at hand.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell

P330 Rinse mouth.

P390 Absorb spillage to prevent material damage. P301 + P330 IF SWALLOWED: Rinse mouth. Do NOT induce

+ P331 vomitina.

P303 + P361 IF ON SKIN (or hair): Remove/Take off immediately

+ P353 all contaminated clothing. Rinse skin with

water/shower.

IN CASE OF EMERGENCY PHONE

National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766)





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Response Statements: P363 Wash contaminated clothing before reuse.

(Continued) P304 + P340 IF INHALED: Remove to fresh air and keep at rest

in a position comfortable for breathing.

P310 Immediately call a POISON CENTER or

doctor/physician.

P305 + P351 IF IN EYES: Rinse cautiously with water for several

+ P338 minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or

doctor/physician.

Storage: P405 Store locked up

P406 Store in corrosive resistant/container with a

resistant inner liner

Signal Word: DANGER

EPA NZ Approval Code: HSR002526

Cleaning Products (Corrosive) Group Standard

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.

If 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 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 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

Section 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 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 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.

Disposal:

- 1: Recycle wherever possible or consult manufacturer for recycling options.
- 2: Consult State Land Waste Management Authority for disposal.
- 3: Treat and neutralise with slaked lime at an effluent treatment plant.
- 4: Recycle containers, otherwise dispose of in an authorised landfill.

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Protective Equipment: Wear neoprene gloves and boots, overalls and face/eye

protection

Environmental Precautions: Avoid entry into waterways or streams. Prevent washings

from entering waterways. Absorb spillage to prevent material

damage.

Section 7- Handling and Storage

Storage: SUITABLE CONTAINER

Polyethylene or polypropylene container.

Store in corrosive resistant/container with a resistant inner liner.

Plastic carboy Plastic drum Polyliner drum

Check all containers are clearly labelled and free from leaks.

STORAGE INCOMPATIBILITY

Segregate from alkalies, oxidising agents and chemicals readily decomposed by acids, i.e. cyanides, sulfides, carbonates.

STORAGE REQUIREMENTS

1: Store in locked up in original containers.

2: Keep containers securely sealed.

3: Store in a cool, dry, well-ventilated area.

4: Store away from incompatible materials and foodstuff containers.

5: Protect containers against physical damage and check regularly for leaks.

6: Observe storing and handling recommendations on label.

Handling: Do not handle until all safety instructions have been read and understood.

Wear eye / face protection.

In case of inadequate ventilation wear respiratory protection.

Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Absorb spillage to prevent material

damage.

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

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: Purple liquid Acidic odour

Specific Gravity: 1.4
pH: N/Av
Vapour Pressure: N/Av
Flash Point: N/App
Autoignition Temperature: N/App
Flammability Limits: N/App

Solubility: 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 Information

ERMA Classification: May cause long lasting harmful effects to aquatic life.

Hazardous to terrestrial vertebrates.

Ecotoxicity: May be harmful to aquatic life. Hazardous to terrestrial invertebrates

Bioaccumulation: Product contains bioaccumulative and ecologically persistent

ingredients

Section 13 - Disposal Considerations

Product and Container

disposal:

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 Information

Proper 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:

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)