



SDS ECOFLUSH Date: 29.09.2020 Version No:1.0 Page 1 of 6

### Section 1 - Identification of the substance/preparation and the company

Product Name: EcoFlush
Company: Donaghys Ltd

Address: 16 Sheffield Crescent

PO Box 20 449 Christchurch

**Telephone Number:** 0800 942 006

**Recommended Use:** Acidic General Purpose Detergent Sanitiser

#### Section 2 - Hazard Identification

Hazard Classes:

6.1E

May be harmful if swallowed

6.5B

May cause allergic skin reaction

May cause harm to breast fed children

May cause damage to organs

Corrosive to metals

Causes severe skin burns and eye damage

8.3A Causes serious eye damage

9.1B Toxic to aquatic life with long lasting

effects

9.3C Harmful to terrestrial invertebrates

EPA NZ Approval Code: HSR002526 Cleaning products (corrosive) Group

Standard

# Section 3 - Composition Information

Chemical Entity	CAS No.	Content [%]
Glycolic Acid	79-14-1	10-30%
Citric Acid	5949-29-1	10-30%
Oxalic Acid	6153-56-6	1-10%
Polyquat PQ-2	25988-97-0	1-10%

### Section 4 - First Aid Measures

If Swallowed: NEVER give anything by mouth to an unconscious person.

Rinse mouth and give water or milk to drink. 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: Wash with plenty of soap and water. Wash contaminated

clothing before re-use. Immediately call 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.

IN CASE OF EMERGENCY PHONE
National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766)





SDS ECOFLUSH Date: 29.09.2020 Version No:1.0 Page 2 of 6

Advice to Doctor: Treat symptomatically.

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

## Section 5 - Fire-fighting Measures

Flashpoint: Not applicable

**Combustion Products:** Decomposes on heating and may produce toxic fumes of

carbon monoxide (CO). Other decomposition products include phosphorus oxides (Pox. Flammable hydrogen gas

may be formed on contact with metals

Flammability Limits: Not applicable

Breathing apparatus, face shield or protective goggles, and **Protective Equipment:** 

neoprene rubber gloves and boots

**Extinguishing Media:** Based on surrounding materials None

**Special Fire Fighting** 

Methods:

#### 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

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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SDS ECOFLUSH Date: 29.09.2020 Version No:1.0 Page 3 of 6

**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.

# 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.

#### STORAGE INCOMPATIBILITY

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

#### STORAGE REQUIREMENTS

1: Store 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.

# 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.

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:** 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.

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SDS ECOFLUSH Date: 29.09.2020 Version No:1.0 Page 4 of 6

Provide adequate ventilation in warehouse or closed

storage areas. Page 4 of 6

## Section 9 – Physical and Chemical Properties

**Appearance:** Green liquid **Odour:** Acidic odour

Specific Gravity: 1.2
pH: N/A
Vapour Pressure: N/A
Flash Point: N/A
Autoignition Temperature: N/A
Flammability Limits: N/A

**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, contact with some

metals may produce hydrogen gas

**Hazardous Decomposition** 

**Products:** 

None

#### 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 highly corrosive, harmful if swallowed

and is capable of causing burns to mouth, throat,

oesophagus, with extreme discomfort, pain. Considered an

unlikely route of entry in commercial/industrial environments. Small amounts or low dose rates are

regarded as practically non-harmful. Ingestion of large quantity may cause severe abdominal pains, thirst, acidemia, difficult breathing, convulsions, collapse, shock and death. Although less hazardous than nitric and sulfuric acid, phosphoric acid has equal corrosive action upon ingestion. Death of an individual 19 days after ingestion of

phosphoric acid was due to recurrent internal

haemorrhage. Necrosis of the upper and lower digestive

tract and pancreas was evident at autopsy.

**Inhalation:** Not normally a hazard due to non-volatile nature of

product. The vapour/mist is highly discomforting to the upper respiratory tract and may cause breathing difficulty. High concentrations cause inflamed airways and watery swelling of the lungs with oedema. Inhalation of vapour or mist may cause choking, coughing, headache, weakness and dizziness. Prolonged or repeated inhalation of vapour or mist may cause pulmonary oedema (lung damage) and

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SDS ECOFLUSH Date: 29.09.2020 Version No:1.0 Page 5 of 6

cvanosis.

**Dermal:** The concentrate is extremely discomforting to the skin and

is capable of causing severe burns or skin reactions which may lead to dermatitis. The material may cause severe skin irritation after prolonged or repeated exposure and my produce on contact skin redness, swelling, the production

of vesicles, scaling and thickening of the skin.

Ocular: The concentrate is extremely corrosive to the eyes and is

capable of causing severe damage with loss of sight. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

**Chronic Effects:** Principal routes of exposure are by accidental skin and eye

contact and by inhalation of vapours especially at higher temperatures. The product does not cause phosphorus poisoning. No human exposure data available. For this reason health effects described are based on experience with chemically related materials. As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or

ingestion in any form, should be avoided by observing

good occupational work practice.

### Section 12 - Ecological Information

**EPA Classification:** 9.1D, 9.3C

**Ecotoxicity:** May be harmful to aquatic life. Harmful to terrestrial

invertebrates

**Bioaccumulation:** Product contains bioaccumulative and ecologically

persistent ingredients

# Section 13 - Disposal Considerations

**Product 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, ORGANIC, N.O.S

UN Number: 3265
DG Class: 8
Subsidiary Risk Class: None
Packing Group: II
HAZCHEM Code: 2X





SDS ECOFLUSH Date: 29.09.2020 Version No:1.0 Page 6 of 6

# Section 15 - Regulatory Information

**EPA NZ Registration Code:** HSR002526

See <a href="http://www.epa.govt.nz">http://www.epa.govt.nz</a> for approval conditions

NZFSA Approval Number: H2158

## **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)**