

**FRESH FLUSH**  
*Bactericidal Toilet Cleaner and Descaler*

**FEATURES & APPLICATIONS**

Fresh Flush is a bactericidal liquid toilet cleaner and descaler.

Fresh Flush is safe to use on stainless steel and, in fact, will help restore the shine on dulled appliances. Fresh Flush contains a powerful bactericide which is effective under acidic conditions. It has an optimised viscosity, for maximum adherence to sloping surfaces and leaves a penetrating pine fragrance in treated areas.

Fresh Flush will sanitise and descale toilet bowls and urinals by cleaning surfaces, removing scale build-ups, killing germs and destroying odours.

**APPLICATION DETAILS**

Task	Maximum Dilution	How To Use
Sanitising and descaling toilet bowls and urinals:	Use undiluted	Pour over surface, ensuring complete coverage. Leave for 10 minutes then flush with water. Scrub stubborn stains with a toilet brush.

**PRODUCT AND PACKAGING INFORMATION**

Appearance & Odour:	Viscous blue liquid with a pine fragrance.
Chemical Description:	An aqueous solution of citric acid, surfactant, bactericide, thickener, solvent, perfume and dye.
Packaging:	6 x 1 litres, 3 x 5 litres.
Shelf Life:	2 years.

**ENVIRONMENTAL INFORMATION**

**General Information:** This product is expected to have very little ecological impact.

**Environmental Checklist:**

Biodegradable detergents:	Yes	CFC free:	Yes	Solvent free:	No
Phosphate free:	Yes	Acid/alkali free:	No	Free of dyes/perfumes:	No
Recyclable packaging:	Yes	Biodegradable Container:	No	Biodegradable outer box:	Yes

FURTHER INFORMATION AVAILABLE ON REQUEST

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY**

<b>Commercial Name Intended/Recommended use</b>	<b>Fresh Flush Toilet Cleaner.</b>	<b>Supplier Address</b>	<b>Unico Ltd North Main Street, Carronshore, Falkirk FK2 8HT 01324 573400 01324 573401</b>
<b>Issue Date Issue Number</b>	<b>May'15 2</b>	<b>Telephone Fax</b>	

**2. HAZARDS IDENTIFICATION**

**2.1 Classification** This product is classified under EC 1272/2008

Physical and Chemical Hazards	Not classified
Human Health	May be irritating to skin & severely damaging to eyes
Environment	Not classified

**2.1 Label Elements** Label in Accordance with (EC) No. 1272/2008



Signal Word	<b>Warning</b>
Hazard Statements	<b>H319</b> Causes serious eye irritation <b>H315</b> Causes skin irritation <b>H302</b> Harmful if swallowed
Precautionary Statements	<b>P101</b> - If medical advice is needed, have product container or label at hand <b>P102</b> - Keep out of reach of children <b>P103</b> - Read label before use. <b>EUH 210</b> - Safety data sheet available on request. <b>P301 +P330 +P331</b> IF SWALLOWED: Rinse mouth. Do NOT induce vomiting <b>P302 +P352</b> IF ON SKIN: Wash with plenty of soap and water <b>P332 + P313</b> If skin irritation occurs: Get medical advice/attention. <b>P305 +P351 +P338</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <b>P337 + P313</b> If eye irritation persists: Get medical attention. <b>P281</b> Use personal protective equipment as required. <b>Wear eye protection</b> when there is a risk of splashing. <b>Wear rubber/impervious gloves for skin protection.</b>

**3. COMPOSITION OF PRODUCT AND INFORMATION ON INGREDIENTS**

**3.1 Mixtures**

Concentrations below the concentration limit for classification in mixtures means that substance not reaching this does not need to be classified. Those that do not reach this concentration will still be included as indicative advice only.

Citric Acid	1-5%
CAS-No.: 77-92-9	EC No.: 201-069-1
Classification (EC 1272/2008) Eye Damage 2 . H319	Skin Irritant. 2 - H315 Resp. Irritant - H335
Alcohol ethoxylate	1-5%
CAS-No.: 68439-46-3	EC No.: --
Classification (EC 1272/2008) Eye Damage 1 . H318	Acute 4 . H302

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

- Ingestion**                      Rinse mouth thoroughly. Do not induce vomiting. Act immediately to prevent further irritation of mouth, throat and stomach mucosa. Seek medical advice immediately
- Inhalation**                      No ill effects expected at concentrations used. If irritation is experienced go in open air and ventilate area. Mouth and throat may be rinsed with water.
- Eye Contact**                      Check for and remove contact lenses. Rinse thoroughly with plenty of water for several minutes.
- Skin Contact**                      Rinse affected area with water as instructed, if needed apply a cold compress to relieve irritation.

**4.2 Most important symptoms and effects, both acute & chronic**

Where irritation of tissue occurs, stinging and redden accompanied by some discomfort for a short period after exposure no further exposure until condition improves. Be vigilant for asthmatic-like symptoms after inhalation. No Chronic effects known at the concentrations used in the mixture

**4.3 Indication of any immediate medical attention and special treatment needed**

If irritation to the mouth, throat, stomach, skin, eyes or respiratory system occurs and doesn't subside within a few minutes after the first aid measures have been carried out, seek immediate medical advice and have this SDS or the product label to hand. Be vigilant for asthma-like respiratory symptoms. These will require immediate medical assistance.

A cold compress can be used to alleviate skin irritation.

**5. FIRE FIGHTING MEASURES**

- 5.1 Suitable extinguishing media**                      This product is not flammable. Use fire extinguishing media appropriate for surrounding area.
- Unsuitable extinguishing media**                      Not applicable.
- 5.2 Special hazards arising from the substance or mixture**                      Fumes may contain poisonous oxides of carbon and nitrogen (CO<sub>x</sub> & NO<sub>x</sub>) if affected by fire.
- 5.3 Advice for firefighters**                      Use appropriate extinguishing media for fires in the area. Firefighters should wear self-contained breathing apparatus if heat generated breakdown products are likely to be present

**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing and eyeshields for major releases only. Normal workplace or domestic spills do not require special precautions.
- 6.2 Environmental Precautions**  
Avoid spillage into surface water drains, soil / subsoil or vegetation.
- 6.3 Methods and material for containment and cleaning up**  
Hose away with plenty of water, diluting well, unless this would contaminate a water source or vegetation. In which case either collect, dilute as earlier and pour down waste drain (foul sewer) or absorb onto dry sand or similar material and dispose of safely as commercial waste.

**7. HANDLING AND STORAGE**

- 7.1 Handling**                      Avoid contact with skin and eyes. Do not mix with any other chemicals. Avoid contact with alkaline materials and metals
- 7.2 Storage**                      Store upright in original containers in a cool dry area out of the reach of children. Always keep in the original container.
- 7.3 Specific end use(s)**                      Use only as directed by the front page of this document and the product label

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control Parameters**

Name	STD	TWA . 8 Hrs Total inhalable / respirable	STEL . 15 Min	Comments

# PRODUCT SAFETY DATA SHEET



Citric Acid (nuisance dust only)	OEL	10mg/m <sup>3</sup>	4mg/m <sup>3</sup>	--	-	
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Note: No other substances above 1% in the product with a listed exposure limit

## 8.2 Exposure Control

<b>Respiratory Protection</b>	Personal protection is not normally required unless a risk assessment indicates the need for it .In which case wear a facemask with a suitable particulate filter.
<b>Skin Protection</b>	Personal protection is not normally required unless a risk assessment indicates the need for it .In which case wear protective overalls and safety shoes/boots.
<b>Eye Protection</b>	Personal protection is not normally required unless a risk assessment indicates the need for it .In which case wear eyeshields.
<b>Hand Protection</b>	For prolonged contact with skin the use of rubber or PVC gloves is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Blue viscous liquid	<b>Flash Point (ACC)</b>	-
<b>Odour</b>	Mild	<b>Viscosity (20C)</b>	300 cp approx.
<b>pH</b>	Between 1 & 2 typically	<b>Relative Density</b>	1.04
<b>Boiling point</b>	approx. 100 C	<b>Water solubility</b>	Soluble

### 9.2 Other Information

None

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Will react with alkaline materials
<b>10.2 Chemical Stability</b>	Stable under normal conditions
<b>10.3 Hazardous Reactions</b>	Exothermic with Alkaline materials
<b>10.4 Conditions to Avoid</b>	Extreme hot or cold
<b>10.5 Incompatible Materials</b>	None noted but could be reactive / corrosive to steels
<b>10.6 Hazardous decomposition products</b>	Oxides of carbon & nitrogen. Possible Hydrogen gas if reacting with metals

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

We have not carried out any animal testing for this product. Any ATE figures quoted below are from Toxicity Classifications that have been carried out using ATE (Acute Toxicity Estimate) Calculation Method using LD50 or ATE figures provided by the Raw Material Manufacturer.

Consideration is only given to components with greater than 1% based on the product formulation and those with a listed exposure limit in Section 8.

#### Acute Toxicity – Irritant & damaging to tissue and eyes

Component	LD-50, Oral mg/kg	LD-50, Skin mg/kg	LC-50 (Inhalation)	Chronic Consideration
Citric Acid	3000 (rat)	Not known but irritant	Not known but irritating	None known

#### Chronic Toxicity

<b>Carcinogenicity</b>	No evidence
<b>Sensitization</b>	No evidence
<b>Mutagenic Effects</b>	No information available
<b>Reproductive Effects</b>	Some limited evidence but not conclusive.
<b>Developmental Effects</b>	No information available.
<b>Target Organs</b>	No evidence but general internal tissue damage from ingestion
<b>Endocrine Disruptor Info.</b>	No information available.
<b>Other Adverse Effects</b>	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Ecotoxicity effects

Component	Toxicity to Fish LC-50, mg/l	Exposure Time, Hrs	Comments
Citric Acid	440-760 (fish)	96	

**12.3 Bioaccumulation Potential**

With the current information available, when used for its intended purpose this product will not cause adverse effects in the environment.

**12.4 Mobility in soil**

No information available but is biodegradable

**12.5 Aquatic Toxicity**

With the current information available, this is judged to be low at the dilutions that exist.

**12.6 Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Discharge used working solutions to drain is acceptable in small amounts due to the dilution of running water. Small amounts (less than 1 Litre) of unwanted concentrated product may be flushed with water to sewer with at least 15 minutes of running water.

Larger volumes of the concentrated product must be sent for disposal using a licensed waste disposal contractor.

Rinse out empty container with water and consign to normal waste.

**14. TRANSPORT**

Not regulated for Transport

**15. REGULATORY INFORMATION**

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

**EU legislation**

Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). The product is as classified under GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures. Ingredients are listed with classification GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

**Guidance**

Workplace Exposure Limits EH40.

The National Institute for Occupational Safety and Health (NIOSH) register of Immediately Dangerous to Life or Health Concentrations (IDLH)

**16. OTHER INFORMATION**

This product does not require any special training before use. Usage and handling instructions are mentioned on packaging and on the first page of this Safety Data Sheet. This health and safety information refers to the concentrated product and has been prepared assuming the intended described use is adhered to. Any unusual or novel use of this product is done without being assessed for the impact nor is it part of the considerations in this document.

Diluted solutions can be considered to be significantly less hazardous although they should always be handled with care.

**Key literature references and sources for data**

Safety Data Sheet, Misc. manufacturers.

CLP Classification - Table 3.1 List of harmonised classification and labelling of hazardous substances.

CHIP Classification - Table 3.2 The list of harmonised classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC.

ECHA - C&L Inventory database.

**Revision comments**

This product is now using classification from GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

**Revision date** 01/05/2017

The Hazard Statements listed below in this Section No 16 relate to the Raw Materials (Ingredients) in the Product (as listed in Section 3) and NOT the product itself. For the Risk Phrases / Hazard Statements relating to this Product see Section 2.

**Hazard statements in full**

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 Possible respiratory irritation