



# Safety Data Sheet

according to WHS Regulations

Printing date 08.01.2021

Revision: 08.01.2021

## 1 Identification

**Product Name: SPA & PIPE FLUSHA****Other Means of Identification:** Mixture**Recommended Use of the Chemical and Restriction on Use:**

Cleaning agent. Use according to manufacturer's directions.

**Details of Manufacturer or Importer:**POPS Group (The POPS Group Pty Ltd as Trustee for The Pool Shops Trust)  
10-12 Cairns Street  
Loganholme QLD 4129**Phone Number:**07 3209 7884  
1800 143 788**Emergency telephone number:**1800 033 111  
+61 3 9663 2130 (International)

## 2 Hazard(s) Identification

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



corrosion

Skin Corrosion/Irritation 1A      H314 Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation 1      H318 Causes serious eye damage.



STOT SE 3      H335 May cause respiratory irritation.

Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.

**Signal Word** Danger**Hazard Statements**

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

P260 Do not breathe dusts or mists.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

### 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

CAS: 77-92-9	Citric acid	30 - 50%
	⚠ Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2A, H319; STOT SE 3, H335	
CAS: 5329-14-6	Sulfamic acid	10 - 30%
	⚠ Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2, H319; Aquatic Chronic 3, H412	

### 4 First Aid Measures

**Inhalation:**

If inhaled, remove to fresh air and lay patient down. Keep warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention.

**Eye Contact:**

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Removal of contact lenses should only be performed by a skilled professional. Seek immediate medical attention.

**Ingestion:**

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Rinse out of mouth with water, then slowly provide additional liquid to dilute. Do not give anything by mouth to an unconscious person. Seek medical attention.

**Symptoms Caused by Exposure:**

Inhalation: May cause respiratory irritation. May cause pulmonary oedema, coughing, choking, dizziness, nausea, muscle weakness and headache. Symptoms of pulmonary oedema include a tightness in the chest, dyspnoea, frothy sputum, and cyanosis.

Skin Contact: Causes severe skin burns.

Eye Contact: Causes serious eye damage. May cause blindness, ocular lesions, pain, lachrymation, photophobia, and chemical burns.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting, diarrhoea and pronounced thirst. May also result in burns to the mucosal membranes of the mouth, throat, and oesophagus.

### 5 Fire Fighting Measures

**Suitable Extinguishing Media:**

Dry chemical powder, alcohol foam, carbon dioxide, water spray or fog, and BCF (where regulations permit).

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include toxic oxides of sulphur, acrid smoke, corrosive and poisonous fumes. This product is not flammable, but may burn or decompose in a fire.

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Heating may cause expansion leading to violent rupture of containers. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.  
Prevent firefighting run-off from entering drains and water courses.  
HAZCHEM: 2X

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

### 6 Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

For small spills, clean area immediately. Wipe spill surface and place into a suitable, labelled container for waste disposal.

For major spills, stop leak if safe to do so. Do not touch the spilled material. Collect the recoverable spilled material and place into suitable containers for recycling. Absorb residual spill with sand, earth, vermiculite or some other absorbent material. Shovel/scrape up the solid material and place into suitable containers for disposal. Decontaminate/neutralise the remaining residue, and wash area preventing run-off into drains.

### 7 Handling and Storage

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours, mists, and aerosols. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Do not use aluminium or galvanised containers when handling the product. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep in the original labelled container. Ensure lid is tightly closed when not in use. Store away from strong acids. Protect from physical damage and regularly check for leaks.

### 8 Exposure Controls and Personal Protection

**Exposure Standards:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Engineering Controls:**

Provide sufficient mechanical (general and/or local exhaust) ventilation to minimise exposure.

**Respiratory Protection:**

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Polychloroprene, nitrile rubber, butyl rubber, fluorocautchouc, or polyvinyl chloride gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing, overalls, P.V.C. apron (depending on conditions in which it has to be used, in

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particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Safety glasses with side shields or chemical goggles for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9 Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	White
<b>Odour:</b>	Acrid/Acidic
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	<1
<b>Melting point/freezing point:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	110 °C
<b>Flash Point:</b>	Not applicable
<b>Flammability:</b>	Product is not flammable.
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Vapour Pressure:</b>	No information available
<b>Density:</b>	Not determined.
<b>Bulk Density:</b>	1 kg/m <sup>3</sup>
<b>Relative Density at 20 °C:</b>	1.25 (Water = 1)
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Miscible
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>Viscosity at 20 °C:</b>	1 cSt
<b>Solvent separation test:</b>	
<b>% Volatiles by Weight:</b>	~ 60 %
<b>VOC:</b>	No information available

### 10 Stability and Reactivity

**Possibility of Hazardous Reactions:**

Acids may react with metals to produce hydrogen, a highly flammable and explosive gas.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of storage and use.

**Conditions to Avoid:** Extreme temperatures

**Incompatible Materials:** Metals and alkalis.

**Hazardous Decomposition Products:**

Hazardous combustion products include toxic oxides of sulphur, acrid smoke, corrosive and poisonous fumes.

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## 11 Toxicological Information

**Toxicity:****LD50/LC50 Values Relevant for Classification:****CAS: 77-92-9 Citric acid**

Oral	LD50	5,040 mg/kg (mouse) 11,700 mg/kg (rat)
	LD50	5,500 mg/kg (rat) (subcutaneous)
	LC50/96 h	440-706 mg/l (fish)

**CAS: 5329-14-6 Sulfamic acid**

Oral	LD50	1,050 mg/kg (guinea pig) 3,160 mg/kg (rat)
	Dermal	LD50

**Acute Health Effects****Inhalation:**

May cause respiratory irritation. May cause pulmonary oedema, coughing, choking, dizziness, nausea, muscle weakness and headache. Symptoms of pulmonary oedema include a tightness in the chest, dyspnoea, frothy sputum, and cyanosis.

**Skin:** Causes severe skin burns.

**Eye:**

Causes serious eye damage. May cause blindness, ocular lesions, pain, lachrymation, photophobia, and chemical burns.

**Ingestion:**

May cause gastrointestinal irritation, nausea, vomiting, diarrhoea and pronounced thirst. May also result in burns to the mucosal membranes of the mouth, throat, and oesophagus.

**Skin Corrosion / Irritation:** Causes severe skin burns.

**Serious Eye Damage / Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** Acid mists, strong inorganic is classified by IARC as Group 1 - Carcinogenic to humans.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Single Exposure:** May cause respiratory irritation.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:**

Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.

**Existing Conditions Aggravated by Exposure:**

Asthmatics appear to be at particular risk for pulmonary effects.

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## 12 Ecological Information

**Ecotoxicity:****Aquatic toxicity:**

Harmful to aquatic life with long lasting effects.

**CAS: 77-92-9 Citric acid**

EC50/48 h 10,000 mg/l (bacterial)

EC50/72 h 120 mg/l (daphnia)

LC50/96 h 440-760 mg/l (golden orfe)

**CAS: 5329-14-6 Sulfamic acid**

LC50/96 h 70.3 mg/l (fathead minnow)

**Persistence and Degradability:** No data available on finished product.**Bioaccumulative Potential:** No data available on finished product.**Mobility in Soil:** No data available on finished product.**Other adverse effects:** No further relevant information available.

## 13 Disposal Considerations

**Disposal Methods and Containers:**

Dispose according to applicable local and state government regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

## 14 Transport Information

**UN Number**

ADG, IMDG, IATA

UN3265

**Proper Shipping Name**

ADG, IMDG, IATA

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(sulphamic acid and citric acid)**Dangerous Goods Class**

ADG Class:

8 Corrosive substances.

Subsidiary Risk:

**Packing Group:**

ADG, IMDG, IATA

III

Hazchem Code:

2X

Special Provisions:

223, 274

Limited Quantities:

5 L

Packagings &amp; IBCs - Packing Instruction:

P001, IBC03, LP01

Portable Tanks &amp; Bulk Containers - Instructions: T7

Portable Tanks &amp; Bulk Containers - Special Provisions:

TP1, TP28

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### 15 Regulatory Information

**Australian Inventory of Industrial Chemicals:**

All ingredients are listed.

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:**

Poisons Schedule: 6

**Australia: Priority Existing Chemicals**

None of the ingredients is listed.

### 16 Other Information

**Date of Preparation or Last Revision:** 08.01.2021**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)
**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

Serious Eye Damage/Irritation 2: Serious eye damage/eye irritation – Category 2

Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term (Chronic). Category 3

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020”

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