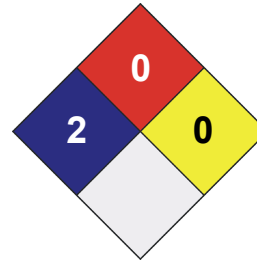


1. Product and Company Identification

Product name Drain Out Bathroom Drain Opener
CAS # Mixture
Product use Drain treatment
Manufacturer Iron Out dba Summit Brands
 7201 Engle Road
 Fort Wayne, IN 46804-5875 US
 Phone: 260-483-2519
 Emergency Phone: 1-800-424-9300 (CHEMTREC)

| LEGEND | |
|----------|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |

| | |
|----------------------------|-----|
| HEALTH | / 2 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | X |



2. Hazards Identification

Emergency overview CAUTION
 CAUSES EYE IRRITATION. CAUSES SKIN IRRITATION.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes Causes irritation.

Skin Causes irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

OSHA regulatory status This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects See section 12.

3. Composition/Information on Ingredients

| Components | CAS # | Percent |
|---|------------|-----------|
| Hydrogen peroxide | 7722-84-1 | 5 - 8 |
| 1,2-Propylene glycol | 57-55-6 | 1 - 5 |
| Citric acid | 77-92-9 | 1 - 5 |
| Dodecanamide, N-[3-(dimethylamino)propyl]-, N-oxide | 61792-31-2 | 0.5 - 1.5 |

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention if irritation develops or persists.

Skin contact Immediately flush with water. Wash with soap and water. Obtain medical attention if irritation persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion

Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Notes to physician

Treat patient symptomatically.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS/OSHA criteria.

Extinguishing media**Suitable extinguishing media**

Dry chemical. Water spray. Foam. Carbon dioxide.

Unsuitable extinguishing media

Not available

Protection of firefighters**Specific hazards arising from the chemical**

Decomposition releases oxygen which may intensify fire.

Protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products

May include and are not limited to: Oxides of carbon. Oxygen.

Explosion data**Sensitivity to mechanical impact**

Not available.

Sensitivity to static discharge

Not available.

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Environmental precautions

Do not discharge into lakes, streams, ponds or public waters.

Methods for containment

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

7. Handling and Storage

Handling

Use good industrial hygiene practices in handling this material. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage

Keep out of reach of children. Store in a closed container away from incompatible materials.

8. Exposure Controls/Personal Protection

Occupational exposure limits**US. ACGIH Threshold Limit Values****Components****Type****Value**

Hydrogen peroxide (CAS 7722-84-1)

TWA

1 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**Components****Type****Value**

Hydrogen peroxide (CAS 7722-84-1)

PEL

1.4 mg/m3

1 ppm

| | |
|---------------------------------------|---|
| Exposure limits | Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL. |
| Engineering controls | General ventilation normally adequate. |
| Personal protective equipment | |
| Eye / face protection | Wear safety glasses with side shields. |
| Hand protection | Rubber gloves. Confirm with a reputable supplier first. |
| Skin and body protection | As required by employer code. |
| Respiratory protection | Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. |
| General hygiene considerations | Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product. |

9. Physical and Chemical Properties

| | |
|---|----------------|
| Appearance | Clear |
| Color | Blue |
| Form | Liquid |
| Odor | Citrus |
| Odor threshold | Not available. |
| Physical state | Liquid. |
| pH | 3 - 3.5 |
| Freezing point | Not available. |
| Boiling point | Not available. |
| Pour point | Not available. |
| Evaporation rate | Not available |
| Flash point | Not available. |
| Auto-ignition temperature | Not available. |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Specific gravity | 1.04 |
| Partition coefficient (n-octanol/water) | Not available. |
| Solubility (water) | Not available. |
| Relative density | 8.68 lb/gal |
| Viscosity | Not available. |
| VOC | Not available |
| Percent volatile | Not available |

10. Stability and Reactivity

| | |
|---|---|
| Reactivity | None known. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Chemical stability | Stable under recommended storage conditions. |
| Conditions to avoid | Do not mix with other chemicals. |
| Incompatible materials | Caustics. Oxidizers. Reducing agents. Organic materials. Combustible materials. |
| Hazardous decomposition products | May include and are not limited to: Oxides of carbon. Oxygen. |

11. Toxicological Information

Toxicological data

Components

1,2-Propylene glycol (CAS 57-55-6)

Acute

Dermal

LD50

Species

Rabbit

Test Results

20800 mg/kg

Oral

LD50

Dog

19000 mg/kg

Guinea pig

184000 mg/kg

Mouse

23900 mg/kg

Rabbit

14800 mg/kg

Rat

20000 mg/kg

LC50

Not available.

Citric acid (CAS 77-92-9)

Acute

Oral

LD50

Mouse

5040 mg/kg

Rat

3000 mg/kg

LC50

Not available.

Hydrogen peroxide (CAS 7722-84-1)

Acute

Dermal

LD50

Rabbit

2000 mg/kg

Rat

2000 mg/kg

Oral

LD50

Mouse

2000 mg/kg

Rat

75 mg/kg

LC50

Not available.

Effects of acute exposure

Eye contact

Causes irritation.

Skin contact

Causes irritation.

Inhalation

May cause respiratory tract irritation.

Ingestion

May cause stomach distress, nausea or vomiting.

Sensitization

Non-hazardous by WHMIS/OSHA criteria.

Chronic effects

Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity

Not classified or listed by NTP or OSHA.

ACGIH Carcinogens

Hydrogen peroxide (CAS 7722-84-1)

A3 Confirmed animal carcinogen with unknown relevance to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrogen peroxide (CAS 7722-84-1)

Volume 36, Supplement 7, Volume 71 - 3 Not classifiable as to carcinogenicity to humans.

Mutagenicity

Non-hazardous by WHMIS/OSHA criteria.

Reproductive effects

Non-hazardous by WHMIS/OSHA criteria.

Teratogenicity

Non-hazardous by WHMIS/OSHA criteria.

Name of Toxicologically Synergistic Products Not available.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data Components

| | | Species | Test Results |
|--|----------------|--------------------------------------|------------------------|
| 1,2-Propylene glycol (CAS 57-55-6) | | | |
| Crustacea | EC50 | Daphnia | 10000 mg/L, 48 Hours |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 10000 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 710 mg/l, 96 hours |
| Citric acid (CAS 77-92-9) | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Daphnia magna | 120 mg/l, 72 hr |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 1516 mg/l, 96 hr |
| Hydrogen peroxide (CAS 7722-84-1) | | | |
| Algae | IC50 | Algae | 2.5 mg/L, 72 Hours |
| Crustacea | EC50 | Daphnia | 7.7 mg/L, 48 Hours |
| Persistence and degradability | Not available. | | |
| Bioaccumulation / Accumulation | Not available | | |
| Mobility in environmental media | Not available. | | |
| Environmental effects | Not available. | | |
| Aquatic toxicity | Not available. | | |
| Partition coefficient | | | |
| 1,2-Propylene glycol | | -0.92 | |
| Chemical fate information | Not available. | | |

13. Disposal Considerations

Disposal instructions Review federal, state/provincial, and local government requirements prior to disposal.
Waste from residues / unused products Not available
Contaminated packaging Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada WHMIS Ingredient Disclosure: Threshold limits

| | |
|------------------------------------|-----|
| 1,2-Propylene glycol (CAS 57-55-6) | 1 % |
| Citric acid (CAS 77-92-9) | 1 % |
| Hydrogen peroxide (CAS 7722-84-1) | 1 % |

WHMIS status Controlled

WHMIS classification

Class D - Division 2B

WHMIS labeling



Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200
hazardous chemical

Yes

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Spill: Reportable quantity

Hydrogen peroxide (CAS 7722-84-1) 1000 lbs

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold Planning Quantity

Hydrogen peroxide (CAS 7722-84-1) 1000 lbs

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US CAA Section 111 Volatile Organic Compounds: Listed substance

1,2-Propylene glycol (CAS 57-55-6) Listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

US CAA Section 612 SNAP Program: Listed substance

Hydrogen peroxide (CAS 7722-84-1) Listed.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

Hydrogen peroxide (CAS 7722-84-1) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - Illinois Chemical Safety Act: Listed substance

Hydrogen peroxide (CAS 7722-84-1) Listed.

US - Minnesota Haz Subs: Listed substance

1,2-Propylene glycol (CAS 57-55-6) Listed.

Hydrogen peroxide (CAS 7722-84-1) Listed.

US - New Jersey RTK - Substances: Listed substance

1,2-Propylene glycol (CAS 57-55-6) Listed.

Hydrogen peroxide (CAS 7722-84-1) Listed.

US - New York Release Reporting: Hazardous Substances: Listed substance

Hydrogen peroxide (CAS 7722-84-1) Listed.

US - Texas Effects Screening Levels: Listed substance

1,2-Propylene glycol (CAS 57-55-6) Listed.

Citric acid (CAS 77-92-9) Listed.

Hydrogen peroxide (CAS 7722-84-1) Listed.

US. Massachusetts RTK - Substance List

Hydrogen peroxide (CAS 7722-84-1) Listed.

US. Pennsylvania RTK - Hazardous Substances

1,2-Propylene glycol (CAS 57-55-6)

Listed.

Hydrogen peroxide (CAS 7722-84-1)

Listed.

US. Rhode Island RTK

Hydrogen peroxide (CAS 7722-84-1)

Listed.

Inventory status**Country(s) or region****Inventory name****On inventory (yes/no)***

Canada

Domestic Substances List (DSL)

Yes

Canada

Non-Domestic Substances List (NDSL)

No

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information**Disclaimer**

The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.

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Effective date

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Expiry date

01-July-2015

Prepared by

Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

Redbook revision # 4, 03/03/2014