



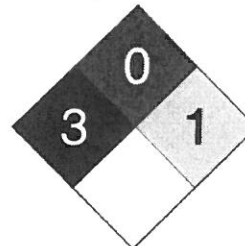
# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Name** Drain Out Extra, Master Plumber® Drain Opener, ACE Drain Opener  
**CAS #** Mixture  
**Product use** Drain opener  
**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 HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 3
Flammability	0
Physical Hazard	1
Personal Protection	X



## 2. Hazards Identification

**Emergency overview** DANGER  
CAUSES EYE BURNS. CAUSES SKIN BURNS.

**Potential short term health effects**

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

**Eyes** Causes chemical burns. May cause blindness.

**Skin** May cause chemical burns. Harmful contact may not cause immediate pain.

**Inhalation** May cause respiratory tract irritation or chemical burns.

**Ingestion** Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

**Target organs** Eyes. Skin. Mucous membranes. Respiratory system.

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

**Signs and symptoms** The product causes burns of eyes, skin and mucous membranes.

**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

Ingredient(s)	CAS #	Percent
Sodium hypochlorite	7681-52-9	3 - 7
Sodium hydroxide	1310-73-2	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 immediately.

**Skin contact** Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. 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. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

**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.

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## 5. Fire Fighting Measures

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<b>Flammable properties</b>	Not flammable by WHMIS/OSHA criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Treat for surrounding material.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Hydrogen chloride. Oxygen.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

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## 6. Accidental Release Measures

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<b>Personal precautions</b>	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.
<b>Environmental precautions</b>	Do not discharge into lakes, streams, ponds or public waters.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	Should not be released into the environment. 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.

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## 7. Handling and Storage

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<b>Handling</b>	Use good industrial hygiene practices in handling this material. DO NOT get in eyes, on skin or clothing. Use only with adequate ventilation. Avoid breathing vapors or mists of this product. Wash thoroughly after handling.
<b>Storage</b>	Keep out of the reach of children. Store in a closed container away from incompatible materials.

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## 8. Exposure Controls / Personal Protection

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**Exposure limits****Ingredient(s)****Exposure Limits**

Sodium hydroxide

**ACGIH-TLV**  
Ceiling: 2 mg/m3  
**OSHA-PEL**  
TWA: 2 mg/m3

Sodium hypochlorite

**ACGIH-TLV**  
Not established  
**OSHA-PEL**  
Not established

**Engineering controls**

General ventilation normally adequate.

**Personal protective equipment**

<b>Eye / face protection</b>	Wear chemical goggles.
<b>Hand protection</b>	Rubber gloves. Confirm with a reputable supplier first.
<b>Skin and body protection</b>	As required by employer code.
<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
<b>General hygiene considerations</b>	Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Clear
<b>Color</b>	Yellow
<b>Form</b>	Liquid
<b>Odor</b>	Bleach
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Liquid
<b>pH</b>	13 - 13.4
<b>Melting point</b>	Not available
<b>Freezing point</b>	Not available
<b>Boiling point</b>	Not available
<b>Pour point</b>	Not available
<b>Evaporation rate</b>	Not available
<b>Flash point</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	1.077 - 1.083
<b>Octanol/water coefficient</b>	Not available
<b>Solubility (H2O)</b>	Complete
<b>VOC (Weight %)</b>	Not available
<b>Viscosity</b>	Water thin
<b>Percent volatile</b>	Not available

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## 10. Stability and Reactivity

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<b>Reactivity</b>	Reacts violently with acids. This product may react with oxidizing agents.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Acids. Oxidizing agents.
<b>Hazardous decomposition products</b>	May include and are not limited to: Hydrogen chloride. Oxygen.

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## 11. Toxicological Information

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**Component analysis - LC50**

<b>Ingredient(s)</b>	<b>LC50</b>
Sodium hydroxide	Not available
Sodium hypochlorite	> 5250 mg/m3 rat

**Component analysis - Oral LD50****Ingredient(s)****LD50**

Sodium hydroxide

Not available

Sodium hypochlorite

8200 mg/kg rat; 5800 mg/kg mouse

**Effects of acute exposure****Eye**

Causes chemical burns. May cause blindness.

**Skin**

May cause chemical burns. Harmful contact may not cause immediate pain.

**Inhalation**

May cause respiratory tract irritation or chemical burns.

**Ingestion**

Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

**Sensitization**

Non-hazardous by WHMIS/OSHA criteria.

**Chronic effects**

Non-hazardous by WHMIS/OSHA criteria.

**Carcinogenicity**

See below.

**IARC - Group 3 (Not Classifiable)**

Sodium hypochlorite

7681-52-9

Monograph 52 [1991] (listed under Hypochlorite salts)

**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**

Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

**Ecotoxicity - Freshwater Algae - Acute Toxicity Data**

Sodium hypochlorite

7681-52-9

24 Hr EC50 *Skeletonema costatum*: 0.095 mg/L**Ecotoxicity - Freshwater Fish - Acute Toxicity Data**

Sodium hydroxide

1310-73-2

96 Hr LC50 *Oncorhynchus mykiss*: 45.4 mg/L [static]

Sodium hypochlorite

7681-52-9

96 Hr LC50 *Pimephales promelas*: 0.06 - 0.11 mg/L [flow-through]; 96 Hr LC50 *Pimephales promelas*: 4.5 - 7.6 mg/L [static]; 96 Hr LC50 *Lepomis macrochirus*: 0.4 - 0.8 mg/L [static]; 96 Hr LC50 *Lepomis macrochirus*: 0.28 - 1 mg/L [flow-through]; 96 Hr LC50 *Oncorhynchus mykiss*: 0.05 - 0.771 mg/L [flow-through]; 96 Hr LC50 *Oncorhynchus mykiss*: 0.03 - <0.19 mg/L [semi-static]; 96 Hr LC50 *Oncorhynchus mykiss*: 0.18 - 0.22 mg/L [static]**Ecotoxicity - Water Flea - Acute Toxicity Data**

Sodium hypochlorite

7681-52-9

96 Hr EC50 *Daphnia magna*: 2.1 mg/L; 48 Hr EC50 *Daphnia magna*: 0.033 - 0.044 mg/L [Static]**Persistence / degradability**

Not available

**Bioaccumulation / accumulation**

Not available

**Mobility in environmental media**

Not available

**Environmental effects**

Harmful to aquatic life.

**Aquatic toxicity**

Not available

**Partition coefficient**

Not available

**Chemical fate information**

Not available

**Other adverse effects**

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)

#### Basic shipping requirements:

**Proper shipping name** Corrosive liquids, n.o.s. (SODIUM HYPOCHLORITE)

**Hazard class** 8

**UN number** UN1760

**Packing group** II

#### Additional information:

**Special provisions** B2, IB2, T11, TP2, TP27

**Packaging exceptions** 154

**ERG number** 154



### Transportation of Dangerous Goods (TDG - Canada)

#### Basic shipping requirements:

**Proper shipping name** CORROSIVE LIQUID, N.O.S. (SODIUM HYPOCHLORITE)

**Hazard class** 8

**UN number** UN1760

**Packing group** II

#### Additional information:

**Special provisions** 16



## 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 List

Sodium hydroxide	1310-73-2	1 %
Sodium hypochlorite	7681-52-9	1 %

**WHMIS status** Controlled

**WHMIS classification** Class E - Corrosive Material

#### 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.

#### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Sodium hydroxide	1310-73-2	1000 Lb final RQ; 454 kg final RQ
Sodium hypochlorite	7681-52-9	100 Lb final RQ; 45.4 kg final RQ

#### U.S. - CWA (Clean Water Act) - Hazardous Substances

Sodium hydroxide	1310-73-2	Present
Sodium hypochlorite	7681-52-9	Present

**CERCLA (Superfund) reportable quantity**

Sodium hydroxide: 1000.0000

Sodium hypochlorite: 100.0000

**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

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Clean Water Act (CWA)** Hazardous substance

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

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**

Sodium hydroxide 1310-73-2 Present

Sodium hypochlorite 7681-52-9 Present

**U.S. - Louisiana - Reportable Quantity List for Pollutants**

Sodium hydroxide 1310-73-2 1000 Lb final RQ; 454 kg final RQ

Sodium hypochlorite 7681-52-9 100 Lb final RQ; 45.4 kg final RQ

**U.S. - Massachusetts - Right To Know List**

Sodium hydroxide 1310-73-2 Present

Sodium hypochlorite 7681-52-9 Present

**U.S. - Minnesota - Hazardous Substance List**

Sodium hydroxide 1310-73-2 Present

Sodium hypochlorite 7681-52-9 Present

**U.S. - New Jersey - Right to Know Hazardous Substance List**

Sodium hydroxide 1310-73-2 sn 1706

Sodium hypochlorite 7681-52-9 sn 1707

**U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances**

Sodium hydroxide 1310-73-2 1000 Lb RQ (air); 100 lb RQ (land/water)

Sodium hypochlorite 7681-52-9 100 Lb RQ (air); 100 lb RQ (land/water)

**U.S. - Pennsylvania - RTK (Right to Know) List**

Sodium hydroxide 1310-73-2 Environmental hazard

Sodium hypochlorite 7681-52-9 Environmental hazard

**U.S. - Rhode Island - Hazardous Substance List**

Sodium hydroxide 1310-73-2 Toxic (caustic); Flammable (caustic)

**Inventory name**

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.

**Issue date**

22-Apr-2013

**Effective date**

30-Jun-2013

**Expiry date**

30-Jun-2016

**Prepared by**

Dell Tech Laboratories Ltd. (519) 858-5021

**Other information**

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