

# Heavy Duty Descaling Tablets – Calcium, Lime & Rust

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

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Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Heavy Duty Descaling Tablets - Calcium, Lime & Rust

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Cleaner

#### 1.3. Supplier

##### Distributor

XeroTabs Inc.  
101-2275 Upper Middle Rd. E  
P.O. Box L6H 0C3  
Oakville, - CANADA  
T 905-491-6892 - F 905-491-6801  
[www.xerotabs.com](http://www.xerotabs.com)

##### Distributor

XeroTabs Inc.  
360 Central Ave., Suite 800  
Saint Petersburg, Florida  
United States, 33701  
T 727-598-6841  
[www.xerotabs.com](http://www.xerotabs.com)

#### 1.4. Emergency telephone number

Emergency number : 905-491-6892 (8:00-17:00 EST)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS classification

Acute Tox. 4 (Oral)  
Skin Irrit. 2  
Eye Irrit. 2A  
Skin Sens. 1

#### 2.2. GHS Label elements, including precautionary statements

##### GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Warning

Hazard statements (GHS) :

Harmful if swallowed.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Precautionary statements (GHS) :

Wash hands thoroughly after handling.

If swallowed: Call a poison center or doctor if you feel unwell.

Rinse mouth.

If on skin: Wash with plenty of water.

If skin irritation or rash occurs: Get medical advice/attention.

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

If eye irritation persists: Get medical advice/attention.

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Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
Maleic acid	Maleic acid cis-Butenedioic acid / But-2-enoic acid, (Z)- / Z-1,2-Ethylenedicarboxylic acid / (Z)-But-2-enoic acid / MALEIC ACID / Toxilic acid / cis-1,2-Ethylenedicarboxylic acid / 2-Butenedioic acid, (Z)- / 2-Butenedioic acid (2Z)-	CAS-No.: 110-16-7	60 - 80
Sulfamic acid	Sulfamic acid Sulphamic acid / Sulphamidic acid / Aminosulfonic acid / Amido-sulfonic acid / sulfamic acid	CAS-No.: 5329-14-6	10 < 30
Disodium carbonate	Disodium carbonate Sodium carbonate / Carbonic acid, disodium salt / Soda ash / Sodium carbonate (2:1) / Sodium carbonate, anhydrous / Carbonic acid sodium salt (1:2) / SODIUM CARBONATE / Sodium carbonate anhydrous	CAS-No.: 497-19-8	5 - 10

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Not a normal route of exposure. If symptoms develop, remove to fresh air. Get medical attention if condition worsens.
First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of Water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: Not expected to be a primary route of exposure.
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Symptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### 4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Carbon dioxide (CO <sub>2</sub> ). Dry powder. Water spray.
Unsuitable extinguishing media	: Do not use water jet.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon.
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### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
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#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

For containment	: Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with skin and eyes. Do not swallow. Handle and open container with care.
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Hygiene measures : Take off contaminated clothing and wash it before reuse. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Store in a dry, cool and well-ventilated place.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Heavy Duty Descaling Tablets - Calcium, Lime & Rust

No additional information available

#### Maleic acid (110-16-7)

No additional information available

#### Sulfamic acid (5329-14-6)

No additional information available

#### Disodium carbonate (497-19-8)

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

None necessary under normal conditions of use.

Type	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves, Reusable gloves	Nitrile rubber (NBR)		≥0.2 mm	

#### Eye protection:

None necessary under normal conditions of use.

#### Skin and body protection:

None necessary under normal conditions of use.

#### Respiratory protection:

None necessary under normal conditions of use.

Device	Filter type	Condition
Dust mask	Type P2	

#### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Tablets
Colour	: Reddish
Odour	: Floral
Odour threshold	: No data available
pH	: 2.2
pH solution concentration	: 1 %
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butylacetate=1)	: Not applicable
Flammability	: Not flammable
Vapour pressure	: Not applicable
Relative vapour density at 20°C / 68 °F	: No data available
Relative density	: No data available
Solubility	: Water: Easily soluble
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: Product is not selfigniting
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive limits	: No data available
Explosive properties	: Product does not present an explosion hazard.
Oxidising properties	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Heat. Incompatible materials.

#### 10.5. Incompatible materials

Alkalis.

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### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.  
Acute toxicity (dermal) : Not classified.  
Acute toxicity (inhalation) : Not classified.

#### Heavy Duty Descaling Tablets - Calcium, Lime & Rust

ATE CA (oral)	854.893 mg/kg bodyweight
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#### Maleic acid (110-16-7)

LD50 oral rat	708 mg/kg
LD50 dermal rabbit	1560 mg/kg
LC50 inhalation rat	> 720 mg/m <sup>3</sup> (Exposure time: 1 h)
ATE CA (oral)	708 mg/kg bodyweight
ATE CA (Dermal)	1560 mg/kg bodyweight

#### Sulfamic acid (5329-14-6)

LD50 oral rat	1450 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE CA (oral)	1450 mg/kg bodyweight

#### Disodium carbonate (497-19-8)

LD50 oral rat	4090 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:EPA 16 CFR 1500.40
ATE CA (oral)	4090 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.  
pH: 2.2  
Serious eye damage/irritation : Causes serious eye irritation.  
pH: 2.2  
Respiratory or skin sensitisation : May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified.  
Carcinogenicity : Not classified.  
Reproductive toxicity : Not classified.  
STOT-single exposure : Not classified.

#### Maleic acid (110-16-7)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified.  
Aspiration hazard : Not classified.

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Viscosity, kinematic	Not applicable
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Symptoms/effects after inhalation : Not expected to be a primary route of exposure.

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Symptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Other information	: Likely routes of exposure: ingestion, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Maleic acid (110-16-7)	
LC50 - Fish [1]	5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	250 – 400 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	≈ 93.8 mg/l Test organisms (species): Daphnia magna
NOEC (chronic)	10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Sulfamic acid (5329-14-6)	
LC50 - Fish [1]	14.2 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	71.6 mg/l Test organisms (species): Daphnia magna
LOEC (chronic)	34 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	19 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 60 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '34 d'
Disodium carbonate (497-19-8)	
LC50 - Fish [1]	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	265 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	310 – 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [2]	200 – 227 mg/l Test organisms (species): Ceriodaphnia sp.

### 12.2. Persistence and degradability

#### Heavy Duty Descaling Tablets - Calcium, Lime & Rust

Persistence and degradability	Not established.
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### 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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#### Maleic acid (110-16-7)

BCF - Fish [1]	(10 dimensionless)
Partition coefficient n-octanol/water	-0.34 (at 20 °C (at pH 7))

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### Disodium carbonate (497-19-8)

BCF - Fish [1]

(no bioaccumulation)

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : No other effects known.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## SECTION 14: Transport information

In accordance with DOT / TDG

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable

Proper Shipping Name (TDG) : Not applicable

### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : Not applicable

#### TDG

Transport hazard class(es) (TDG) : Not applicable

### 14.4. Packing group

Packing group (DOT) : Not applicable

Packing group (TDG) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable



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### SECTION 15: Regulatory information

#### 15.1 Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

#### 15.2. International regulations

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: Other information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Revision date : 12/18/2023  
Other information : None.  
Prepared by : Nexreg Compliance Inc.  
[www.Nexreg.com](http://www.Nexreg.com)



Full text of H-statements	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

SDS HazCom 2012 - WHMIS 2015 (Nexreg) 2023

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