



Safety Data Sheet

Material Name: BoreSaver Ultra C

SDS ID: 52010-12_US

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

BoreSaver Ultra C

Emergency Contact

CHEMTREC

(800) 424-9300

654956

Synonyms

Ethanediocic acid dihydrate Dicarbolic acid dihydrate

Product Use

Cleaning agents

Restrictions on Use

Industrial use

Details of the supplier of the safety data sheet

Laval Underground Surveys, LLC

2476 N. Bundy Dr.

Fresno, CA 93727

U.S.A.

Phone: 559-251-1396

Fax: 559-251-2096

Email: info@lavalunderground.com

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Acute Toxicity - Oral - Category 4

Acute Toxicity - Dermal - Category 4

Skin Corrosion/Irritation - Category 1

Serious Eye Damage/Eye Irritation - Category 1

GHS Label Elements**Symbol(s)****Signal Word**

Danger

Hazard Statement(s)

Harmful if swallowed

Harmful in contact with skin

Causes severe skin burns and eye damage

Precautionary Statement(s)



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Prevention

Wear protective gloves/protective clothing/eye protection/face protection

Wash thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dusts or mists

Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing

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

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower

Take off contaminated clothing and wash before reuse

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Immediately call a POISON CENTER or doctor

Specific treatment (see label)

Storage

Store locked up

Disposal

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

Statement of Unknown Toxicity

4% of the mixture consists of ingredient(s) of unknown acute toxicity.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
6153-56-6	Oxalic acid	95-96
Confidential	Trade Secret	4-5

Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

Skin

Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion



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Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Never give anything by mouth to an unconscious or convulsive person.

Most Important Symptoms/Effects

Acute

Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause gastrointestinal irritation and central nervous system depression.

Delayed

May cause central nervous system effects. May cause kidney effects.

Note to Physicians

Treat symptomatically and supportively.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use any media suitable for the surrounding fires.

Unsuitable Extinguishing Media

Do not use water jets.

Special Hazards Arising from the Chemical

The product itself does not burn. Containers may rupture or explode if exposed to heat.

Hazardous Combustion Products

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Fire Fighting Measures

Keep unnecessary people away, isolate hazard area and deny entry. Move container from fire area if it can be done without risk. Cool containers with water.

Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Do not touch or walk through spilled material. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Keep unnecessary people away, isolate hazard area and deny entry. Ventilate the area. Scoop spilled material into clean, dedicated equipment. Carefully neutralize the dilute liquid with lime slurry, soda ash, limestone, caustic soda or other alkaline material. Dispose in accordance with all applicable regulations. Decontaminate personnel, spill area and all tools and equipment.

Environmental Precautions

Avoid release to the environment.



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Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear personal protective clothing and equipment. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for Safe Storage, Including any Incompatibilities

Store locked up

Store and handle in accordance with all current regulations and standards. Keep away from heat, sparks and flame. Keep away from incompatible materials.

Incompatible Materials

Oxidizing agents. alkalies.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Oxalic acid	6153-56-6
ACGIH:	1 mg/m ³ TWA
	2 mg/m ³ STEL

Biological limit value

There are no biological limit values for any of this product's components.

Engineering Controls

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate chemical resistant clothing. Wear chemical resistant apron, lab coat.

Respiratory Protection

In case of inadequate ventilation wear respiratory protection.

Glove Recommendations

Wear appropriate chemical resistant gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white crystalline	Physical State	solid
Odor	None	Color	Not available



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Odor Threshold	Not available	pH	1.3 (solution)
Melting Point	101.5 °C	Boiling Point	Not available
Freezing point	Not available	Evaporation Rate	Not available
Boiling Point Range	Not available	Flammability (solid, gas)	Not available
Autoignition	Not available	Flash Point	(Non-flammable)
Lower Explosive Limit	Not available	Decomposition	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	1
Water Solubility	100 g/l	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Solubility (Other)	miscible in acid
Density	Not available	Physical Form	crystalline solid
Volatility	(Not volatile)		

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable under normal conditions of use.

Possibility of Hazardous Reactions

Will not polymerize.

Conditions to Avoid

Avoid flames, sparks, and other sources of ignition. Avoid contact with water or incompatible materials.

Incompatible Materials

Oxidizing agents. alkalies.

Hazardous decomposition products

oxides of carbon.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

May cause severe irritation or possibly burns.



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Skin Contact

Harmful in contact with skin. Causes severe burns.

Eye Contact

Causes severe burns.

Ingestion

Harmful if swallowed. Ingestion may cause burns of the mouth and stomach. May cause central nervous system depression and kidney damage. May cause calcium deficiency, muscle cramps.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Oxalic acid (6153-56-6)

Oral LD50 Rat 375 mg/kg

Trade Secret (Confidential)

Oral LD50 Rat 2490 mg/kg

Immediate Effects

Causes severe skin burns and eye damage. May cause central nervous system depression.

Delayed Effects

May cause central nervous system depression and kidney damage.

Irritation/Corrosivity Data

Causes severe skin burns and eye damage. May cause burns to the respiratory tract. May cause mucous membrane destruction. May cause mucous membrane irritation and burns.

Respiratory Sensitization

No information available for the product.

Dermal Sensitization

No information available for the product.

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

Germ Cell Mutagenicity

No information available for the product.

Tumorigenic Data

No data available

Reproductive Toxicity

No information available for the product.

Specific Target Organ Toxicity - Single Exposure

central nervous system, kidneys

Specific Target Organ Toxicity - Repeated Exposure

kidneys

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

No data available.



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Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

Trade Secret	Confidential
Invertebrate:	EC50 48 h Daphnia magna 190 mg/L IUCLID

Persistence and Degradability

No information available for the product.

Bioaccumulative Potential

No information available for the product.

Mobility

No information available for the product.

Bioconcentration

No information available for the product.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with all applicable federal, state/regional and local laws and regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D002.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

Shipping Name:CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S., (Contains: Oxalic acid)

Hazard Class: 8

UN/NA #: 3261

Packing Group: III

Required Label(s): 8

IATA Information:

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Hazard Class: 8

UN/NA #: 3261

Packing Group: III

Required Label(s): 8

ICAO Information:

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IMDG Information:

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UN/NA #: 3261

Packing Group: III

Required Label(s): 8

TDG Information:

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Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: Yes **Chronic Health:** No **Fire:** No **Pressure:** No **Reactivity:** No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Oxalic acid	6153-56-6	No	No	No	No	Yes

Not listed under California Proposition 65

Canada Regulations

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR.

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Trade Secret	Confidential
	1 %

WHMIS Classification

E

Component Analysis - Inventory



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Oxalic acid (6153-56-6)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
No	No	No	Yes	Yes	Yes	No	No	No	Yes	Yes	No	Yes

Trade Secret (Confidential)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

Section 16 - OTHER INFORMATION

NFPA Ratings

Health: 3 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes

New SDS: 30, June 2015

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information

Disclaimer:



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Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.