

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	Chromerge Cleaning Solution
CAS number	See section 3
Synonyms	Chromic acid-sulfuric acid

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Laboratory Chemicals
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1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin Corrosion/irritation Category 1 A
Serious Eye Damage/Eye Irritation Category 1
Germ Cell Mutagenicity Category 1B
Carcinogenicity Category 1A
Specific target organ toxicity (single exposure) Category 3
Target Organs - Respiratory system.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

Causes severe skin burns and eye damage.
May cause respiratory irritation.
May cause genetic defects.
May cause cancer.

Precautionary statements

Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash face, hands and any exposed skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.

Response

Immediately call a POISON CENTER or doctor/physician.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.

Eyes

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

Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

Storage

Store locked up.
Store in a well-ventilated place. Keep container tightly closed.

Disposal

Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Harmful to aquatic life with long lasting effects.

WARNING! This product contains a chemical known in the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Sulfuric Acid	-	7664-93-9	93.87%
Water	-	7732-18-5	5.63%
Chromium Trioxide (CrO ₃)	-	1333-82-0	0.50%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
If inhaled	If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Move to fresh air. Immediate medical attention is required.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
If swallowed	Do not induce vomiting. Call a physician or Poison Control Center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat Symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	No information available.

5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes.

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

5.4 Further information

Flash Point Not applicable.

Autoignition Temperature No information available.

Explosion limits

Upper No data available.

Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

NFPA

Health	Flammability	Instability	Physical hazards
3	0	2	W

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Use only under a chemical fume hood. Do not breathe vapors or spray mist. Do not ingest.

Hygiene measures

Keep containers tightly closed in a dry, cool and well-ventilated place. Avoid excess heat.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatibilities

Metals, Bases, Reducing agents.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

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

Component	Type	Value

US. ACGIH Threshold Limit Values

Component	Type	Value
Sulfuric Acid	TWA	0.2 mg/m ³
Chromium Trioxide (CrO ₃)	TWA	0.05 mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
Sulfuric Acid	IDLH	15 mg/m ³
	TWA	1 mg/m ³
Chromium Trioxide (CrO ₃)	IDLH	15 mg/m ³
	TWA	0.0002 mg/m ³

8.2 Exposure controls

Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Face-shield.

Skin protection

Long sleeved clothing.

Body Protection

Long sleeved clothing.

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Control of environmental exposure

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Dark brown
Odor	Odorless
Odor Threshold	No information available.
pH	< 1 Acidic
Melting Point/Range	-5 °C / 23 °F
Boiling Point/Range	290 °C / 554 °F
Evaporation Rate	No information available.
Flammability (solid)	Not applicable.
Flammability or explosive limit	
Upper	No data available.
Lower	No data available.
Vapor Pressure	.001 mmHg @ 20 °C
Vapor Density	No information available.
Specific Gravity	1.9
Solubility	miscible
Partition coefficient; n-octanol/water	No data available.
Autoignition Temp	No information available.
Decomposition Temp	No information available.
Viscosity	No information available.
Molecular Formula	No information available as the product is a mixture.
Molecular Weight	No information available as the product is a mixture.
VOC Content(%)	No information available.
Oxidizing properties	No information available.

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactive hazard.

10.2 Chemical stability

Water reactive.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Incompatible products. Excess heat.

10.5 Incompatible materials

Metals, Bases, Reducing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors, Sulfur oxides, Chromium oxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sulfuric Acid	2140 mg/kg (Rat)	Not Listed	510 mg/m3 (Rat) 2 h
Water	-	Not Listed	Not Listed
Chromium Trioxide (CrO3)	80 mg/kg (Rat)	57 mg/kg (Rabbit)	0.217 mg/L (Rat) 4 h

Skin corrosion/irritation

Causes burns by all exposure routes.

Serious eye damage/eye irritation

Causes burns by all exposure routes.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Sulfuric Acid	7664-93-9	Group 1	Known	A2	X	A2
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Chromium Trioxide (CrO3)	1333-82-0	Group 1	Known	A1	X	A1

Specific target organ toxicity - single exposure

Respiratory system.

Specific target organ toxicity - repeated exposure

None known.

Reproductive toxicity

No information available.

Chronic effects

Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

11.2 Additional Information

The toxicological properties have not been fully investigated.

SECTION 12: Ecological information**12.1 Toxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not allow material to contaminate ground water system. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment.

12.2 Persistence and degradability

May persist based on information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

12.5 Results of PBT and vPvB assessment

Component	Freshwater	Freshwater Fish	Microtox	Water Flea
Sulfuric acid	-	LC50: > 500 mg/L, 96h static (Brachydanio rerio)	-	EC50: 29 mg/L/24h
Chromium trioxide (CrO ₃)	Not listed	LC50: = 40 mg/L, 96h static (Colisa fasciatus)	Not listed	Not listed

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

The toxicological properties have not been fully investigated.

SECTION 13: Disposal considerations**13.1 Waste Disposal Methods**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN Number UN3264
 Proper Shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC,N.O.S.
 Hazard Class 8
 Packaging Group II
 Technical name (SULFURIC ACID, CHROMIUM TRIOXIDE)

IMDG

UN Number UN3264
 Proper Shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC,N.O.S.
 Hazard Class 8
 Packaging Group II
 Technical name (SULFURIC ACID, CHROMIUM TRIOXIDE)

IATA

UN Number UN3264
 Proper Shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC,N.O.S.
 Hazard Class 8
 Packaging Group II
 Technical name (SULFURIC ACID, CHROMIUM TRIOXIDE)

SECTION 15: Regulatory information**US federal regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Component	Section 12(b)
Chromium Trioxide (CrO ₃)	Section 6

CERCLA Hazardous Substance List (40 CFR 302.4)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sulfuric Acid	1000 lb	1000 lb

SARA 304 Emergency release notification

No information available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Chromium Trioxide (CrO ₃)	5 µg/m ³ TWA 2.5 µg/m ³ Action Level	-

Superfund Amendments and Reauthorization Act of 1986 (SARA)**SARA 302 Extremely hazardous substance**

No information available.

SARA 311/312 Hazardous

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	Yes

SARA 313 (TRI reporting)

Component	CAS	Weight %	SARA 313 -
Sulfuric acid	7664-93-9	93.87	1.0
Chromium Trioxide	1333-82-0	0.5	0.1

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**Chromium Trioxide (CrO₃) Listed.**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

No information available.

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants
Sulfuric acid	X	1000 lb	-
Chromium Trioxide	-	-	X

US state regulations**US. Massachusetts RTK - Substance List**

Sulfuric Acid: Listed.

Chromium Trioxide: Listed.

US. New Jersey Worker and Community Right-to-Know Act

Sulfuric Acid: Listed.

Chromium Trioxide: Listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Sulfuric Acid: Listed.

Water: Listed.

Chromium Trioxide: Listed.

California Proposition 65

Component	CAS	California Prop. 65	Prop 65 NSRL	Category
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Sulfuric acid	7664-93-9	Carcinogen	-	Carcinogen
Chromium Trioxide (CrO ₃)	1333-82-0	Carcinogen Developmental Female Reproductive Male Reproductive	0.001 µg/day	Developmental Carcinogen

SECTION 16: Other information

Date of Issue: 5/21/2025

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.