

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 24.08.2016

Revision: 24.08.2016

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

1.1 Product identifier

Trade name: **Clean Shot Sulfuric Acid Drain Opener v.1**

Article number: 100940

CAS number:

7664-93-9

EC number:

231-639-5

Index number:

016-020-00-8

Registration number 01-2119458838-20-XXXX

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

No further relevant information available.

Application of the substance / the mixture: Drain opener

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

Theochem Laboratories

7373 Rowlett Park Drive

Tampa, FL 33610

Phone: 813-237-6463



1.4 Emergency telephone number:

ChemTel Inc.

(800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05

Signal word Danger

Hazard-determining components of labelling:

sulphuric acid

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- **Hazard statements**

H314 Causes severe skin burns and eye damage.

- **Precautionary statements**

P260 Do not breathe mist/vapours/spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P363 Wash contaminated clothing before reuse.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **NFPA ratings (scale 0 - 4)**



Health = 4

Fire = 0

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 4

Fire = 0

Reactivity = 0

- **2.3 Other hazards** There are no other hazards not otherwise classified that have been identified.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.1 Substances**

- **CAS No. Description**

7664-93-9 sulphuric acid

- **Identification number(s)**

· **EC number:** 231-639-5

· **Index number:** 016-020-00-8

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SECTION 4: First aid measures

· 4.1 Description of first aid measures

· After inhalation:

Supply fresh air or oxygen; call for doctor.
Provide oxygen treatment if affected person has difficulty breathing.

· After skin contact:

Immediately remove any clothing soiled by the product.
Immediately rinse with water.
Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

· After eye contact:

Protect unharmed eye.
Rinse opened eye for several minutes under running water.
Seek medical treatment.

· After swallowing:

Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.

· 4.2 Most important symptoms and effects, both acute and delayed

Gastric or intestinal disorders.

· Hazards:

Causes severe skin burns and eye damage.
Danger of gastric perforation.
Danger of circulatory collapse.
Danger of impaired breathing.

· 4.3 Indication of any immediate medical attention and special treatment needed

Monitor circulation, possible shock treatment.
Medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents: CO₂, sand, extinguishing powder. Do not use water.
· For safety reasons unsuitable extinguishing agents: Water

· 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.
Sulphur dioxide (SO₂)
Under certain fire conditions, traces of other toxic gases cannot be excluded.

· 5.3 Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.
Wear fully protective suit.

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SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Remove persons from danger area.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· 6.3 Methods and material for containment and cleaning up

Use limestone to neutralize and absorb spill.

Send for recovery or disposal in suitable receptacles.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Open and handle receptacle with care.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Use personal protective equipment as required.

Prevent formation of aerosols.

When diluting always pour product into water and not vice versa.

Avoid breathing mist/vapours/spray.

Avoid contact with the eyes and skin.

Keep out of reach of children.

· Information about fire - and explosion protection: Keep respiratory protective device available.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Store in a cool location.

Protect from humidity and water.

Use only receptacles specifically permitted for this substance/product.

Unsuitable material for receptacle: steel.

Unsuitable material for receptacle: aluminium.

· Information about storage in one common storage facility:

Store away from flammable substances.

Do not store together with alkalis (caustic solutions).

Store away from oxidising agents.

Store away from water.

Store away from metals.

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- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.
Store under lock and key and out of the reach of children.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

7664-93-9 sulphuric acid

IOELV (EU)	Long-term value: 0,05 mg/m ³
PEL (USA)	Long-term value: 1 mg/m ³
REL (USA)	Long-term value: 1 mg/m ³
TLV (USA)	Long-term value: 0,2* mg/m ³ *as thoracic fraction
EL (Canada)	Long-term value: 0,2 mg/m ³ ACGIH A2; IARC 1
EV (Canada)	Long-term value: 0,2 mg/m ³

· 8.2 Exposure controls

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Clean skin thoroughly immediately after handling the product.
Use only in well ventilated areas.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.

- **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.
Use suitable respiratory protective device when aerosol or mist is formed.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **For the permanent contact gloves made of the following materials are suitable:**

Butyl rubber, BR
Fluorocarbon rubber (Viton)
Laminated film gloves.

- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Neoprene gloves
PVC gloves

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- **Not suitable are gloves made of the following materials:**

PVA gloves
Natural rubber, NR
Leather gloves

- **Eye protection:**



Safety glasses

Goggles recommended during refilling

- **Body protection:** Acid resistant protective clothing

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **Appearance**

Form: Liquid

Colour: Red

- **Odour:** Acidic

- **Odour threshold:** Not determined.

- **pH-value:** < 1,0

- **Melting point/Melting range:** Not determined.

- **Boiling point/Boiling range:** 304 °C (579 °F)

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not applicable.

- **Auto/Self-ignition temperature:** Not determined.

- **Decomposition temperature:** Not determined.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits**

Lower: Not determined.

Upper: Not determined.

- **Vapour pressure:** Not determined.

- **Density:**

Relative density: 1,83

Vapour density: Not determined.

Evaporation rate: Not determined.

- **Solubility in / Miscibility with water:**

Fully miscible.

- **Partition coefficient (n-octanol/water):** Not determined.

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- **Viscosity**
- Dynamic:** Not determined.
- Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
When diluting, always add acid to water, never vice versa.
May produce violent reactions with bases and numerous organic substances including alcohols and amines.
Strongly reducing.
Diluting or dissolving in water always causes rapid heating.
Reacts with base metals forming hydrogen.
Reacts with fats and oils.
- **10.4 Conditions to avoid** Store away from oxidising agents.
- **10.5 Incompatible materials** Alkalies
- **10.6 Hazardous decomposition products**
Corrosive gases/vapours
Sulphur trioxide (SO₃) or SO₃-mist
Sulphur oxides (SO_x)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** None.
- **Primary irritant effect**
- **Skin corrosion/irritation:**
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation:**
Causes severe skin burns and eye damage.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer):		
7664-93-9	sulphuric acid	1

· NTP (National Toxicology Program):		
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· OSHA-Ca (Occupational Safety & Health Administration):

Substance is not listed.

· Probable routes of exposure:

Ingestion.
Inhalation
Eye contact.
Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):** Causes severe skin burns and eye damage.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

- **Aquatic toxicity:** No further relevant information available.

· 12.2 Persistence and degradability

Inorganic product, is not eliminable from water by means of biological cleaning processes.

- **12.3 Bioaccumulative potential** Does not accumulate in organisms.

- **12.4 Mobility in soil** No further relevant information available.

· Ecotoxicological effects:

- **Remark:** After neutralisation toxicity cannot be recognised any longer.

· Additional ecological information:
· General notes:

At present there are no ecotoxicological assessments.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. If the dilution of the use-level pH-value is considerably increased after use, the aqueous waste, emptied into drains, is only low water-dangerous.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods
· Recommendation

Dilute concentrate with water and neutralise afterwards with suitable alkali material (sodium hydroxide solution, lime). The formed neutral salts are relatively environment-friendly.

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Small amounts may be diluted with plenty of water and washed away. Dispose of larger amounts in accordance with Local Authority requirements.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

· **Uncleaned packaging:**

· **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water only.

SECTION 14: Transport information

· **14.1 UN-Number**

· DOT, ADR, IMDG, IATA

UN1830

· **14.2 UN proper shipping name**

· DOT

Sulfuric acid

· ADR, IMDG

SULPHURIC ACID

· IATA

Sulphuric acid

· **14.3 Transport hazard class(es)**

· DOT



· Class

8 Corrosive substances.

· Label

8

· ADR



· Class

8 (C1) Corrosive substances.

· Label

8

· IMDG, IATA



· Class

8 Corrosive substances.

· Label

8

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- | | |
|--|--------------------------------|
| · 14.4 Packing group | |
| · DOT, ADR, IMDG, IATA | II |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Warning: Corrosive substances. |
| · Danger code (Kemler): | 80 |
| · EMS Number: | F-A,S-B |
| · Segregation groups | Acids |

- | | |
|--|-----------------|
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
|--|-----------------|

· **Transport/Additional information:**

· DOT



Limited Quantity for packages less than 30 kg and inner packagings less than 1 L.

· ADR



Limited Quantity for packages less than 30 kg and inner packagings less than 1 L.

· IMDG



Limited Quantity for packages less than 30 kg and inner packagings less than 1 L.

· IATA



Limited Quantity for packages less than 30 kg and inner packagings less than 0,5 L.

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- United States (USA)
- SARA

· **Section 355 (extremely hazardous substances):**

Substance is listed.

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· Section 313 (Specific toxic chemical listings):

Substance is listed.

· TSCA (Toxic Substances Control Act):

Substance is listed.

· Proposition 65 (California):
· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic Categories
· EPA (Environmental Protection Agency)

Substance is not listed.

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· Canadian Domestic Substances List (DSL)

Substance is listed.

· Other regulations, limitations and prohibitive regulations
· Substances of very high concern (SVHC) according to REACH, Article 57

Substance is not listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
LDLo: Lowest Lethal Dose Observed
Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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