# Safety Data Sheet

**acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations**

Printing date: Jan 12, 2023 Revision: Jan 12, 2023

## 1 Identification

· **Product identifier**

· **Trade name: Stop Solution**
· **Product code:** 9016

· **Recommended use and restriction on use**
· **Recommended use:** Laboratory chemicals
· **Restrictions on use:** For Research Use Only – Not Human or Therapeutic Use

· **Details of the supplier of the Safety Data Sheet**
· **Manufacturer/Supplier:**
Chondrex, Inc.
16928 Woodinville-Redmond Rd NE Suite B-101
Woodinville, WA 98072
USA
425-702-6365
support@chondrex.com
· **Emergency telephone number:**
ChemTel LLC
800-255-3924 (North America)
(+1) 813-248-0585 (International)

## 2 Hazard(s) identification

· **Classification of the substance or mixture**

| | | |
|---|---|---|
| Met. Corr.1 | H290 | May be corrosive to metals. |
| Skin Corr. 1C | H314 | Causes severe skin burns and eye damage. |
| Eye Dam. 1 | H318 | Causes serious eye damage. |

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms:**

GHS05

· **Signal word:** Danger
· **Hazard statements:**
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
· **Precautionary statements:**

| | |
|---|---|
| P234 | Keep only in original container. |
| P260 | Do not breathe mist/vapors/spray. |
| P264 | Wash thoroughly after handling. |
| P280 | Wear protective gloves and eye protection. |
| P301+P330+P331 | If swallowed: Rinse mouth. Do NOT induce vomiting. |
| P303+P361+P353 | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |

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| | |
|---|---|
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| 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. |
| P363 | Wash contaminated clothing before reuse. |
| P390 | Absorb spillage to prevent material damage. |
| P405 | Store locked up. |
| P406 | Store in corrosive resistant container with a resistant inner liner. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

· **Other hazards** There are no other hazards not otherwise classified that have been identified.

## 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

| | | | |
|---|---|---|---|
| 7664-93-9 | sulfuric acid | Met. Corr.1, H290; Skin Corr. 1A, H314 | 5-9.9% |

· **Additional information:**
For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.
For the wording of the listed Hazard Statements refer to section 16.

## 4 First-aid measures

· **Description of first aid measures**
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:**
Immediately remove any clothing soiled by the product.
Immediately rinse with water.
If skin irritation continues, consult a doctor.
Seek immediate medical help for blistering or open wounds.
· **After eye contact:**
Protect unharmed eye.
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.
· **Most important symptoms and effects, both acute and delayed:**
Caustic effect on skin and mucous membranes.
Gastric or intestinal disorders when ingested.
· **Danger:**
Danger of gastric perforation.
Causes serious eye damage.
· **Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

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## 5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
The product is not flammable.
Use fire fighting measures that suit the environment.
· **For safety reasons unsuitable extinguishing agents:** None.
· **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
· **Advice for firefighters**
· **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
· **Additional information:** Cool endangered receptacles with water in flooding quantities.

## 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
Ensure adequate ventilation.
· **Environmental precautions**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Methods and material for containment and cleaning up**
Use limestone to neutralize and absorb spill.
Send for recovery or disposal in suitable receptacles.
· **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.

## 7 Handling and storage

· **Handling**
· **Precautions for safe handling:**
Prevent formation of aerosols.
Avoid splashes or spray in enclosed areas.
Use only in well ventilated areas.
Avoid contact with the eyes and skin.
Handle with care.
Avoid breathing mist, vapors, or spray.
· **Information about protection against explosions and fires:** No special measures required.

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· **Conditions for safe storage, including any incompatibilities**
· **Storage**
· **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Unsuitable material for receptacle: aluminium.
Unsuitable material for receptacle: steel.
· **Information about storage in one common storage facility:**
Store away from foodstuffs.
Do not store together with alkalis (caustic solutions).
Store away from metals.
· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
· **Specific end use(s)** No relevant information available.

## 8 Exposure controls/personal protection

· **Control parameters**

| · **Components with limit values that require monitoring at the workplace:** | |
|---|---|
| **7664-93-9 sulfuric acid** | |
| PEL (USA) | Long-term value: 1 mg/m³ |
| REL (USA) | Long-term value: 1 mg/m³ |
| TLV (USA) | Long-term value: 0.2* mg/m³<br>*as thoracic fraction |
| EL (Canada) | Long-term value: 0.2 mg/m³<br>ACGIH A2; IARC 1 |
| EV (Canada) | Long-term value: 0.2 mg/m³ |
| LMPE (Mexico) | Long-term value: 0.2* mg/m³<br>A2;*fracción torácica |

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· **Engineering controls:** Provide adequate ventilation.
· **Breathing equipment:** Not required under normal conditions of use.
· **Protection of hands:**

Protective gloves

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

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· **Eye protection:**

Safety glasses

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment**
No relevant information available.

## 9 Physical and chemical properties

| | |
|---|---|
| · **Information on basic physical and chemical properties** | |
| · **Appearance:** | |
| **Form:** | Liquid |
| **Color:** | Colorless |
| · **Odor:** | Acrid |
| · **Odor threshold:** | Not determined. |
| · **pH-value at 20°C (68 °F):** | <2.0 |
| · **Melting point/Melting range:** | -4 to 0°C (25 to 32 °F) |
| · **Boiling point/Boiling range:** | 100 - 104°C (212 - 219 °F) |
| · **Flash point:** | Not applicable. |
| · **Flammability (solid, gaseous):** | Not applicable. |
| · **Auto-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. |
| · **Oxidizing properties:** | Non-oxidizing. |
| · **Vapor pressure at 20°C (68 °F):** | 23 hPa (17 mm Hg) |
| · **Density:** | |
| **Relative density:** | 1.07-1.09 |
| **Vapor density:** | Not determined. |
| **Evaporation rate:** | Not determined. |
| · **Solubility in / Miscibility with** | |
| **Water:** | Fully miscible. |
| · **Partition coefficient (n-octanol/water):** | Not determined. |
| · **Viscosity** | |
| **Dynamic:** | Not determined. |
| **Kinematic:** | Not determined. |

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· **Other information** No relevant information available.

## 10 Stability and reactivity

· **Reactivity:** No relevant information available.
· **Chemical stability:** Stable under normal temperatures and pressures.
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
· **Possibility of hazardous reactions**
Reacts with alkali (lyes).
Corrosive action on metals.
Toxic fumes may be released if heated above the decomposition point.
· **Conditions to avoid** Excessive heat.
· **Incompatible materials** Alkalis
· **Hazardous decomposition products**

Under fire conditions only:
Sulfur oxides (SOx)

## 11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **LD/LC50 values that are relevant for classification:** None.
· **Primary irritant effect:**
· **On the skin:** Caustic effect on skin and mucous membranes.
· **On the eye:** Strong irritant with the danger of severe eye injury.
· **Sensitization:** Based on available data, the classification criteria are not met.

| · **IARC (International Agency for Research on Cancer):** | | |
|---|---|---|
| None of the ingredients are listed. | | |
| · **NTP (National Toxicology Program):** | | |
| 7664-93-9 | sulfuric acid | K |
| · **OSHA-Ca (Occupational Safety & Health Administration):** | | |
| None of the ingredients are listed. | | |

· **Probable route(s) of exposure:**
Inhalation.
Eye contact.
Skin contact.
· **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.

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· **Aspiration hazard:** Based on available data, the classification criteria are not met.

## 12 Ecological information

· **Toxicity**
· **Aquatic toxicity** No relevant information available.
· **Persistence and degradability** No relevant information available.
· **Bioaccumulative potential:** No relevant information available.
· **Mobility in soil:** No relevant information available.
· **Additional ecological information**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No relevant information available.

## 13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
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. Residual materials should be treated as hazardous.

· **Uncleaned packagings**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

| | |
|---|---|
| · **UN-Number** | |
| · **DOT, ADR, IMDG, IATA** | UN3264 |
| · **UN proper shipping name** | |
| · **DOT** | Corrosive liquid, acidic, inorganic, n.o.s. (Sulfuric acid) |
| · **ADR, IMDG** | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHURIC ACID) |
| · **IATA** | Corrosive liquid, acidic, inorganic, n.o.s. (Sulphuric acid) |

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## · 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 |

· **Packing group**

| | |
|---|---|
| · **DOT, ADR, IMDG, IATA** | III |

· **Environmental hazards**

| | |
|---|---|
| · **Marine pollutant:** | No |

| | |
|---|---|
| · **Special precautions for user** | Warning: Corrosive substances |
| · **Danger code (Kemler):** | 80 |
| · **EMS Number:** | F-A,S-B |
| · **Segregation groups** | Acids |

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

Excepted Quantities (EQ)
EQ Code: E1
Maximum net quantity per inner packaging: 30 mL
Maximum net quantity per outer packaging: 1000 mL

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· **DOT**

Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· **ADR**

Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· **IMDG**

Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· **IATA**

Limited Quantity for packages less than 30 kg gross and inner packagings less than 0.5 L each / 1 L net.

## 15 Regulatory information

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

| · **Section 302 (extremely hazardous substances):** |
|---|
| None of the ingredients are listed. |
| · **Section 355 (extremely hazardous substances):** |
| 7664-93-9 sulfuric acid |
| · **Section 313 (Specific toxic chemical listings):** |
| 7664-93-9 sulfuric acid |
| · **TSCA (Toxic Substances Control Act)** |
| All ingredients are listed. |

· **Proposition 65 (California)**

| · **Chemicals known to cause cancer:** |
|---|
| None of the ingredients are listed. |
| · **Chemicals known to cause reproductive toxicity for females:** |
| None of the ingredients are listed. |

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| · **Chemicals known to cause reproductive toxicity for males:** |
|---|
| None of the ingredients are listed. |
| · **Chemicals known to cause developmental toxicity:** |
| None of the ingredients are listed. |

· **Carcinogenic categories**

| · **EPA (Environmental Protection Agency):** |
|---|
| None of the ingredients are listed. |
| · **IARC (International Agency for Research on Cancer):** |
| None of the ingredients are listed. |
| · **NIOSH-Ca (National Institute for Occupational Safety and Health):** |
| None of the ingredients are listed. |
| · **Canadian Domestic Substances List (DSL):** |
| All ingredients are listed. |

## 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.

· **Date of preparation / last revision** Jan 12, 2023 / -

· **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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistant, Bio-accumulable, Toxique
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
Met. Corr.1: Corrosive to metals – Category 1
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

· **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: 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

SDS Prepared by:
ChemTel Inc.
1305 North Florida Avenue
Tampa, Florida USA 33602-2902

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