

# SAFETY DATA SHEET

according to the OSHA  
Hazard Communication Standard

Version 6.15  
Revision Date 07/17/2026  
Print Date 07/18/2026

## SECTION 1. IDENTIFICATION

### 1.1 Product identifiers

Product name : Jones reagent

Product Number : 758035  
Brand : Aldrich

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

Identified uses : Laboratory chemicals, Synthesis of substances

Restrictions on use : Not Available

### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.  
3050 SPRUCE ST  
ST. LOUIS MO 63103  
UNITED STATES

Telephone : +1 314 771-5765  
Fax : +1 800 325-5052

### 1.4 Emergency telephone number

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-  
527-3887 CHEMTREC (International) 24  
Hours/day; 7 Days/week

## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Hazards for the product as supplied

Oxidizing liquids : Category 1

Corrosive to metals : Category 1

Acute toxicity (Oral) : Category 3

|                                                                 |                                   |
|-----------------------------------------------------------------|-----------------------------------|
| Acute toxicity (Inhalation)                                     | : Category 2                      |
| Acute toxicity (Dermal)                                         | : Category 4                      |
| Skin corrosion                                                  | : Category 1A                     |
| Serious eye damage                                              | : Category 1                      |
| Respiratory sensitisation                                       | : Category 1                      |
| Skin sensitisation                                              | : Category 1                      |
| Germ cell mutagenicity                                          | : Category 1B                     |
| Carcinogenicity                                                 | : Category 1A                     |
| Reproductive toxicity                                           | : Category 2                      |
| Specific target organ toxicity - single exposure                | : Category 3 (Respiratory system) |
| Specific target organ toxicity - repeated exposure (Inhalation) | : Category 1                      |
| Short-term (acute) aquatic hazard                               | : Category 1                      |
| Long-term (chronic) aquatic hazard                              | : Category 1                      |

#### Other hazards

None known.

#### GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H271 May cause fire or explosion; strong oxidizer.  
H290 May be corrosive to metals.  
H301 Toxic if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H330 Fatal if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure if inhaled.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat.  
P220 Keep/ Store away from clothing/ combustible materials.  
P221 Take any precaution to avoid mixing with combustibles.  
P234 Keep only in original container.  
P260 Do not breathe mist or vapours.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P283 Wear fire/ flame resistant/ retardant clothing.  
P284 Wear respiratory protection.

**Response:**

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.  
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.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P306 + P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.  
P308 + P313 IF exposed or concerned: Get medical

advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

P390 Absorb spillage to prevent material damage.

P391 Collect spillage.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

CAS-No. : Not Assigned

**Components**

| Chemical name     | CAS No./Unique ID | Concentration (% w/w) | Trade secret |
|-------------------|-------------------|-----------------------|--------------|
| sulphuric acid    | 7664-93-9*        | >= 10 - <= 30         | TSC          |
| chromium trioxide | 1333-82-0*        | >= 10 - <= 30         | TSC          |

\* Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

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### SECTION 4. FIRST AID MEASURES

General advice : First aiders need to protect themselves.  
Show this safety data sheet to the doctor in attendance.

If inhaled : After inhalation: fresh air. Immediately call in physician.

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If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

- In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.
- In case of eye contact : After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.
- If swallowed : If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.
- Most important symptoms and effects, both acute and delayed : The most important known symptoms and effects are described in the labelling (see section 2 GHS label elements) and/or in section 11
- Protection of first-aiders : For personal protection see section 8.
- Notes to physician : No data available

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## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.
- Specific hazards during fire fighting : Not combustible.

Has a fire-promoting effect due to release of oxygen.

Ambient fire may liberate hazardous vapours.

- Hazardous combustion : Sulphur oxides

products

Chromium oxides

- Specific extinguishing methods : No data available
- Further information : Suppress (knock down) gases/vapours/mists with a water spray jet.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.
- Special protective equipment for fire-fighters : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Advice for non-emergency personnel:  
Do not breathe vapours, aerosols.  
Avoid substance contact.  
Ensure adequate ventilation.  
Evacuate the danger area, observe emergency procedures, consult an expert.  
Advice for emergency responders:  
Wear appropriate personal protective equipment, as indicated in Section 8.
- Environmental precautions : Do not let product enter drains.
- Methods and materials for containment and cleaning up : Cover drains. Collect, bind, and pump off spills.  
Observe possible material restrictions (see sections 7 and 10).  
Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

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## SECTION 7. HANDLING AND STORAGE

For precautions see section 2 GHS label elements

- Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Work under hood. Do not inhale substance/mixture.  
Avoid generation of vapours/aerosols.

Conditions for safe storage : No metal containers.

Further information on storage conditions : Tightly closed.  
Keep locked up or in an area accessible only to qualified or authorised persons.  
Separately or together with other oxidising substances only and away from sources of ignition and heat. Because of their oxidation potential these products can raise the burning rate of combustible substances substantially or ignite combustible substances on contact with them.

Storage class : 5.1A, Strongly oxidizing hazardous materials

Recommended storage temperature : Recommended storage temperature see product label.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

| Components        | CAS-No.   | Value type<br>(Form of exposure)       | Control parameters /<br>Permissible concentration | Basis        |
|-------------------|-----------|----------------------------------------|---------------------------------------------------|--------------|
| sulphuric acid    | 7664-93-9 | TWA                                    | 1 mg/m <sup>3</sup>                               | NIOSH REL    |
|                   |           | TWA<br>(Thoracic particulate matter)   | 0.2 mg/m <sup>3</sup>                             | ACGIH        |
|                   |           | TWA                                    | 1 mg/m <sup>3</sup>                               | OSHA Z-1     |
|                   |           | TWA                                    | 1 mg/m <sup>3</sup>                               | OSHA P0      |
| chromium trioxide | 1333-82-0 | PEL                                    | 0.005 mg/m <sup>3</sup><br>(chromium)             | OSHA<br>CARC |
|                   |           | TWA                                    | 0.0002 mg/m <sup>3</sup><br>(chromium)            | NIOSH REL    |
|                   |           | TWA<br>(Inhalable particulate matter)  | 0.0002 mg/m <sup>3</sup>                          | ACGIH        |
|                   |           | STEL<br>(Inhalable particulate matter) | 0.0005 mg/m <sup>3</sup>                          | ACGIH        |

**Engineering measures** : No data available

## Personal protective equipment

Respiratory protection : required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: : Filter type ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Hand protection

Remarks : required

Eye protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).  
Tightly fitting safety goggles

Skin and body protection : protective clothing

Hygiene measures : Change contaminated clothing and immerse in water.  
Preventive skin protection  
Wash hands and face after working with substance.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : No data available

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point : No data available

Boiling point/boiling range : No data available

|                                                     |                                |
|-----------------------------------------------------|--------------------------------|
| Flash point                                         | : No data available            |
| Evaporation rate                                    | : No data available            |
| Flammability (solid, gas)                           | : No data available            |
| Flammability (liquids)                              | : No data available            |
| Burning rate                                        | : No data available            |
| Upper explosion limit /<br>Upper flammability limit | : No data available            |
| Lower explosion limit /<br>Lower flammability limit | : No data available            |
| Vapour pressure                                     | : No data available            |
| Relative vapour density                             | : No data available            |
| Relative density                                    | : No data available            |
| Density                                             | : 1.2976 g/cm <sup>3</sup>     |
| Water solubility                                    | : No data available            |
| Partition coefficient: n-<br>octanol/water          | : No data available            |
| Autoignition temperature                            | : No data available            |
| Decomposition<br>temperature                        | : No data available            |
| Viscosity, dynamic                                  | : No data available            |
| Viscosity, kinematic                                | : No data available            |
| Flow time                                           | : No data available            |
| Explosive properties                                | : Not classified as explosive. |
| Oxidizing properties                                | : none                         |
| Particle characteristics<br>Particle size           | : No data available            |

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## SECTION 10. STABILITY AND REACTIVITY

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada

**MILLIPORE  
SIGMA**

|                                    |                                                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------|
| Reactivity                         | : No data available                                                                       |
| Chemical stability                 | : The product is chemically stable under standard ambient conditions (room temperature) . |
| Possibility of hazardous reactions | : No data available                                                                       |
| Conditions to avoid                | : no information available                                                                |
| Incompatible materials             | : Metals                                                                                  |
| Hazardous decomposition products   | : For Hazardous combustion products in the event of fire: see section 5                   |

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## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Mixture

##### Acute toxicity

Oral: No data available

Inhalation: No data available

Dermal: No data available

##### Skin corrosion/irritation

No data available

##### Serious eye damage/eye irritation

Remarks: Mixture causes serious eye damage.

Risk of blindness!

##### Respiratory or skin sensitization

Mixture may cause allergy or asthma symptoms or breathing difficulties if inhaled. Mixture may cause an allergic skin reaction.

##### Germ cell mutagenicity

No data available

##### Carcinogenicity

IARC: 1 - Group 1: Carcinogenic to humans (chromium trioxide)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: OSHA specifically regulated carcinogen (chromium trioxide)

##### Reproductive toxicity

No data available

##### Specific target organ toxicity - single exposure

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

**Components****sulphuric acid****Acute toxicity**

LD50 Oral - Rat - male and female - 2,140 mg/kg

Remarks: (ECHA)

Inhalation: No data available

Dermal: No data available

**Skin corrosion/irritation**

Skin - Rabbit

Result: Extremely corrosive and destructive to tissue.

Remarks: (IUCLID)

**Serious eye damage/eye irritation**

Remarks: Causes serious eye damage.

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

Test Type: Ames test

Test system: Salmonella typhimurium

Result: negative

Remarks: (HSDB)

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

## **chromium trioxide**

### **Acute toxicity**

LD50 Oral - Rat - male and female - 52 mg/kg

(OECD Test Guideline 401)

Acute toxicity estimate Inhalation - 0.051 mg/l - dust/mist

(Expert judgement)

Acute toxicity estimate Dermal - 300.1 mg/kg

(Expert judgement)

### **Skin corrosion/irritation**

Skin - Rabbit

Result: Corrosive - 0.5 h

Remarks: (ECHA)

### **Serious eye damage/eye irritation**

Eyes - Rabbit

Result: Causes burns.

Remarks: (ECHA)

Remarks: Causes serious eye damage.

### **Respiratory or skin sensitization**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Patch test: - Human

Result: positive

Remarks: (IUCLID)

May cause an allergic skin reaction.

### **Germ cell mutagenicity**

May cause genetic defects.

Test Type: Ames test

Result: positive

Remarks: (IUCLID)

### **Carcinogenicity**

Carcinogenicity - Carcinogenic in animal experiments. (Lit.)

May cause cancer. Positive evidence from human epidemiological studies.

### **Reproductive toxicity**

Suspected of damaging fertility.

### **Specific target organ toxicity - single exposure**

May cause respiratory irritation. - Respiratory system

### **Specific target organ toxicity - repeated exposure**

Inhalation - Causes damage to organs through prolonged or repeated exposure.

### **Aspiration hazard**

No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **sulphuric acid:**

|                                                     |                                                                                                                                                                                                            |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 100 mg/l<br>End point: Immobilization<br>Exposure time: 48 h<br>Test Type: static test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 202<br>GLP: yes |
| Toxicity to algae/aquatic plants                    | : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l<br>Exposure time: 72 h<br>Test Type: static test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 201<br>GLP: yes                  |

### Ecotoxicology Assessment

|                          |                                                       |
|--------------------------|-------------------------------------------------------|
| Acute aquatic toxicity   | : This product has no known ecotoxicological effects. |
| Chronic aquatic toxicity | : This product has no known ecotoxicological effects. |

##### **chromium trioxide:**

|                                                     |                                                                                                                                                                   |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : LC50 (Pimephales promelas (fathead minnow)): 33.2 mg/l<br>Exposure time: 96 h<br>Analytical monitoring: yes<br>Remarks: (in analogy to similar products) (ECHA) |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 0.035 mg/l<br>Exposure time: 48 h<br>Analytical monitoring: yes<br>Remarks: (ECHA)                                           |
| M-Factor (Acute aquatic toxicity)                   | : 10                                                                                                                                                              |
| Toxicity to fish (Chronic toxicity)                 | : NOEC (Poecilia reticulata (guppy)): 3.5 mg/l<br>End point: mortality<br>Exposure time: 28 d<br>Analytical monitoring: yes<br>Remarks: (ECHA)                    |
| Toxicity to daphnia and                             | : NOEC (Daphnia magna (Water flea)): 18 mg/l                                                                                                                      |

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other aquatic  
invertebrates (Chronic  
toxicity)

End point: mortality  
Exposure time: 21 d  
Analytical monitoring: yes  
Remarks: (ECHA)

### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### **Persistence and degradability**

#### **Components:**

##### **sulphuric acid:**

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

##### **chromium trioxide:**

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

### **Bioaccumulative potential**

#### **Components:**

##### **sulphuric acid:**

Partition coefficient: n-octanol/water : Remarks: Not applicable for inorganic substances

##### **chromium trioxide:**

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : Remarks: Not applicable for inorganic substances

### **Mobility in soil**

#### **Components:**

##### **chromium trioxide:**

Stability in soil : Remarks: No data available

### **Other adverse effects**

#### **Components:**

##### **sulphuric acid:**

Results of PBT and vPvB assessment : Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

|                                   |                                                                                               |
|-----------------------------------|-----------------------------------------------------------------------------------------------|
| Additional ecological information | : Biological effects:                                                                         |
|                                   | Harmful effect due to pH shift.                                                               |
|                                   | Caustic even in diluted form.                                                                 |
|                                   | Does not cause biological oxygen deficit.                                                     |
|                                   | Endangers drinking-water supplies if allowed to enter soil and/or waters in large quantities. |
|                                   | Neutralisation possible in waste water treatment plants.                                      |
|                                   | Discharge into the environment must be avoided.                                               |

**Endocrine disrupting properties**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

|                     |                                                                                                                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste from residues | : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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**SECTION 14. TRANSPORT INFORMATION**

**International Regulations**

**IATA-DGR**

|                                          |                                                                              |
|------------------------------------------|------------------------------------------------------------------------------|
| UN/ID No.                                | : UN 3098                                                                    |
| Proper shipping name                     | : Oxidizing liquid, corrosive, n.o.s.<br>(chromium trioxide, sulphuric acid) |
| Class                                    | : 5.1                                                                        |
| Subsidiary risk                          | : 8                                                                          |
| Packing group                            | : II                                                                         |
| Labels                                   | : Division 5.1 - Oxidizing substances, Class 8 - Corrosive substances        |
| Packing instruction (cargo aircraft)     | : 554                                                                        |
| Packing instruction (passenger aircraft) | : 550                                                                        |

**IMDG-Code**

|                      |                                       |
|----------------------|---------------------------------------|
| UN number            | : UN 3098                             |
| Proper shipping name | : OXIDIZING LIQUID, CORROSIVE, N.O.S. |

(chromium trioxide, sulphuric acid)

Class : 5.1  
 Subsidiary risk : 8  
 Packing group : II  
 Labels : 5.1 (8)  
 EmS Code : F-A, S-Q  
 Marine pollutant : yes

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### National Regulations

#### 49 CFR

UN/ID/NA number : UN 3098  
 Proper shipping name : Oxidizing liquid, corrosive, n.o.s.  
 (chromium trioxide, sulphuric acid)  
 Class : 5.1  
 Subsidiary risk : 8  
 Packing group : II  
 Labels : Division 5.1 - Oxidizing substances, Class 8 - Corrosive substances  
 ERG Code : 140  
 Marine pollutant : no  
 Poison Inhalation Hazard : No

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

| Components     | CAS-No.   | Component RQ (lbs) | Calculated product RQ (lbs) |
|----------------|-----------|--------------------|-----------------------------|
| sulphuric acid | 7664-93-9 | 1000               | 3333                        |

### SARA 304 Extremely Hazardous Substances Reportable Quantity

| Components     | CAS-No.   | Component RQ (lbs) | Calculated product RQ (lbs) |
|----------------|-----------|--------------------|-----------------------------|
| sulphuric acid | 7664-93-9 | 1000               | 3333                        |

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

| Components     | CAS-No.   | Component TPQ (lbs) |
|----------------|-----------|---------------------|
| sulphuric acid | 7664-93-9 | 1000                |

**SARA 311/312 Hazards** : Reactivity Hazard  
 Acute Health Hazard  
 Chronic Health Hazard

**SARA 313**

: The following components are subject to reporting levels established by SARA Title III, Section 313:

|                   |           |                |
|-------------------|-----------|----------------|
| sulphuric acid    | 7664-93-9 | >= 30 - < 50 % |
| chromium trioxide | 1333-82-0 | >= 20 - < 30 % |

**US State Regulations****Massachusetts Right To Know**

|                   |           |
|-------------------|-----------|
| sulphuric acid    | 7664-93-9 |
| chromium trioxide | 1333-82-0 |

**Pennsylvania Right To Know**

|                   |           |
|-------------------|-----------|
| sulphuric acid    | 7664-93-9 |
| chromium trioxide | 1333-82-0 |

**Maine Chemicals of High Concern**

Product does not contain any listed chemicals

**Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

**Washington Chemicals of High Concern**

Product does not contain any listed chemicals

**California Prop. 65**

WARNING: This product can expose you to chemicals including sulphuric acid, chromium trioxide, which is/are known to the State of California to cause cancer, and chromium trioxide, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). **The components of this product are reported in the following inventories:**

US TSCA : All substances listed as active on the TSCA inventory

**TSCA list**

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:  
chromium trioxide 1333-82-0

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**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

|           |                                                                      |
|-----------|----------------------------------------------------------------------|
| ACGIH     | : USA. ACGIH Threshold Limit Values (TLV)                            |
| NIOSH REL | : USA. NIOSH Recommended Exposure Limits                             |
| OSHA CARC | : OSHA Specifically Regulated Chemicals/Carcinogens                  |
| OSHA P0   | : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values) |
| OSHA Z-1  | : USA. Occupational Exposure Limits (OSHA) - Table Z-                |

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|                 |                                                                                             |
|-----------------|---------------------------------------------------------------------------------------------|
|                 | 1 Limits for Air Contaminants                                                               |
| ACGIH / TWA     | : 8-hour, time-weighted average                                                             |
| ACGIH / STEL    | : Short-term exposure limit                                                                 |
| NIOSH REL / TWA | : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| OSHA CARC / PEL | : Permissible exposure limit (PEL)                                                          |
| OSHA P0 / TWA   | : 8-hour time weighted average                                                              |
| OSHA Z-1 / TWA  | : 8-hour time weighted average                                                              |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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