

## SAFETY DATA SHEET

Version 6.6  
Revision Date 03/02/2024  
Print Date 07/14/2024

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

Product name : TRI Reagent®

Product Number : T3934  
Brand : Sigma

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

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

**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**

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

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Flammable liquids (Category 4), H227  
Acute toxicity, Oral (Category 3), H301  
Acute toxicity, Inhalation (Category 3), H331  
Acute toxicity, Dermal (Category 3), H311  
Skin corrosion (Category 1B), H314

Serious eye damage (Category 1), H318  
 Germ cell mutagenicity (Category 2), H341  
 Specific target organ toxicity - repeated exposure (Category 2), Nervous system, Kidney, Liver, Skin, H373  
 Short-term (acute) aquatic hazard (Category 2), H401  
 Long-term (chronic) aquatic hazard (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard Statements

|                    |  |
|--------------------|--|
| H227               | Combustible liquid.  |
| H301 + H311 + H331 | Toxic if swallowed, in contact with skin or if inhaled.  |
| H314               | Causes severe skin burns and eye damage.   |
| H341               | Suspected of causing genetic defects.  |
| H373               | May cause damage to organs (Nervous system, Kidney, Liver, Skin) through prolonged or repeated exposure. |
| H411               | Toxic to aquatic life with long lasting effects.   |

Precautionary Statements

|                           |  |
|---------------------------|--|
| P201                      | Obtain special instructions before use.  |
| P202                      | Do not handle until all safety precautions have been read and understood.  |
| P210                      | Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  |
| P260                      | Do not breathe mist or vapors.   |
| 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.  |
| P273                      | Avoid release to the environment.  |
| P280                      | Wear protective gloves/ protective clothing/ eye protection/ face protection.  |
| 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. |
| P308 + P313               | IF exposed or concerned: Get medical advice/ attention.  |
| P362                      | Take off contaminated clothing and wash before reuse.  |
| P370 + P378               | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.   |
| P391                      | Collect spillage.  |
| P403 + P233               | Store in a well-ventilated place. Keep container tightly closed.   |

|             |   |
|-------------|---|
| P403 + P235 | Store in a well-ventilated place. Keep cool.                        |
| P405        | Store locked up.  |
| P501        | Dispose of contents/ container to an approved waste disposal plant. |

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

Contact with acids liberates very toxic gas.

Vesicant., Rapidly absorbed through skin., Contact with acids liberates toxic gas.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Synonyms : TRI Reagent™ RNA Isolation Reagent

| Component                             |                       | Classification  | Concentration  |
|---------------------------------------|-----------------------|---|----------------|
| <b>Phenol</b>                         |                       |   |                |
| CAS-No.                               | 108-95-2              | Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Muta. 2; STOT RE 2; Aquatic Acute 2; Aquatic Chronic 2; H301, H331, H311, H314, H318, H341, H373, H401, H411<br>Concentration limits:<br>>= 3 %: Skin Corr. 1B, H314; 1 - < 3 %: Skin Irrit. 2, H315; 1 - < 3 %: Eye Irrit. 2, H319; | >= 50 - < 70 % |
| EC-No.                                | 203-632-7             |   |                |
| Index-No.                             | 604-001-00-2          |   |                |
| Registration number                   | 01-2119471329-32-XXXX |   |                |
|                                       |                       |   |                |
| <b>guanidinium, thiocyanate (1:1)</b> |                       |   |                |
| CAS-No.                               | 593-84-0              | Acute Tox. 4; Skin Corr. 1C; Eye Dam. 1; Aquatic Acute 3; Aquatic Chronic 3; H302, H332, H312, H314, H318, H402, H412   | >= 30 - < 50 % |
| EC-No.                                | 209-812-1             |   |                |
| Index-No.                             | 615-030-00-5          |   |                |
| Registration number                   | 01-2120735072-65-XXXX |   |                |
|                                       |                       |   |                |

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

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

#### If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

**In case of skin contact**

After contact with skin: rinse out with polyethylene glycol 400 or a mixture of polyethylene glycol 300/ethanol 2:1 and wash with plenty of water. If neither is available wash with plenty of water. Immediately take off contaminated clothing. 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.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

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**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water Foam Carbon dioxide (CO<sub>2</sub>) Dry powder

**Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides

Nitrogen oxides (NO<sub>x</sub>)

Sulfur oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

**5.3 Advice for firefighters**

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

**5.4 Further information**

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

### **6.2 Environmental precautions**

Do not let product enter drains.

### **6.3 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.

### **6.4 Reference to other sections**

For disposal see section 13.

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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Advice on safe handling**

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### **Advice on protection against fire and explosion**

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### **Storage conditions**

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Do not store near acids.

#### **Storage class**

Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Ingredients with workplace control parameters

| Component | CAS-No.  | Value  | Control parameters   | Basis   |
|-----------|----------|--|----------------------|---|
| Phenol    | 108-95-2 | TWA  | 5 ppm                | USA. ACGIH Threshold Limit Values (TLV)   |
|           | Remarks  | Not classifiable as a human carcinogen<br>Danger of cutaneous absorption |                      |   |
|           |          | TWA  | 5 ppm<br>19 mg/m3    | USA. NIOSH Recommended Exposure Limits  |
|           |          | Potential for dermal absorption  |                      |   |
|           |          | C  | 15.6 ppm<br>60 mg/m3 | USA. NIOSH Recommended Exposure Limits  |
|           |          | Potential for dermal absorption  |                      |   |
|           |          | TWA  | 5 ppm<br>19 mg/m3    | USA. Occupational Exposure Limits (OSHA) - Table Z-1<br>Limits for Air Contaminants     |
|           |          | Skin designation   |                      |   |
|           |          | PEL  | 5 ppm<br>19 mg/m3    | California permissible exposure limits for chemical contaminants (Title 8, Article 107) |
|           |          | Skin   |                      |   |

#### Biological occupational exposure limits

| Component | CAS-No.  | Parameters   | Value              | Biological specimen | Basis                                     |
|-----------|----------|--|--------------------|---------------------|---|
| Phenol    | 108-95-2 | Phenol   | 250mg/g creatinine | Urine               | ACGIH - Biological Exposure Indices (BEI) |
|           | Remarks  | End of shift (As soon as possible after exposure ceases) |                    |                     |   |

### 8.2 Exposure controls

#### Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

#### Personal protective equipment

##### Eye/face 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 protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact  
Material: butyl-rubber  
Minimum layer thickness: 0.3 mm  
Break through time: 480 min  
Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact  
Material: Nitrile rubber  
Minimum layer thickness: 0.11 mm  
Break through time: 120 min  
Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **Body Protection**

protective clothing

### **Respiratory protection**

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.  
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.

### **Control of environmental exposure**

Do not let product enter drains.

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## **SECTION 9: Physical and chemical properties**

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

- |  |                            |
|--|----------------------------|
| a) Appearance                              | Form: liquid<br>Color: red |
| b) Odor                                    | No data available          |
| c) Odor Threshold                          | No data available          |
| d) pH                                      | No data available          |
| e) Melting point/freezing point            | No data available          |
| f) Initial boiling point and boiling range | No data available          |

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|   |                              |
|---|------------------------------|
| g) Flash point                                  | 79 °C (174 °F) - closed cup  |
| h) Evaporation rate                             | No data available            |
| i) Flammability (solid, gas)                    | No data available            |
| j) Upper/lower flammability or explosive limits | No data available            |
| k) Vapor pressure                               | 0.47 hPa                     |
| l) Vapor density                                | No data available            |
| m) Density                                      | No data available            |
| Relative density                                | No data available            |
| n) Water solubility                             | soluble                      |
| o) Partition coefficient: n-octanol/water       | No data available            |
| p) Autoignition temperature                     | 715 °C (1319 °F)             |
| q) Decomposition temperature                    | No data available            |
| r) Viscosity                                    | No data available            |
| s) Explosive properties                         | Not classified as explosive. |
| t) Oxidizing properties                         | none                         |

## 9.2 Other safety information

|                              |                                      |
|------------------------------|--------------------------------------|
| Solubility in other solvents | Dimethyl sulfoxide. (DMSO) - soluble |
|------------------------------|--------------------------------------|

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Forms explosive mixtures with air on intense heating.  
A range from approx. 15 Kelvin below the flash point is to be rated as critical.

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Generates dangerous gases or fumes in contact with:  
Acids

### 10.4 Conditions to avoid

Exposure to light.  
Strong heating.

## 10.5 Incompatible materials

Strong oxidizing agents, Strong bases, Strong acids

## 10.6 Hazardous decomposition 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

Acute toxicity estimate Oral - 181.79 mg/kg  
(Calculation method)

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Acute toxicity estimate Inhalation - 4 h - 0.8562 mg/l - dust/mist (Calculation method)

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages: damage of respiratory tract

Acute toxicity estimate Dermal - 970.61 mg/kg  
(Calculation method)

##### Skin corrosion/irritation

Remarks: Mixture causes burns.

##### Serious eye damage/eye irritation

Remarks: Mixture causes serious eye damage.  
Risk of blindness!

##### Respiratory or skin sensitization

No data available

##### Germ cell mutagenicity

Evidence of genetic defects.

##### Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

##### Reproductive toxicity

No data available

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

No data available

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

Mixture may cause damage to organs through prolonged or repeated exposure.

- Nervous system, Kidney, Liver, Skin

### **Aspiration hazard**

No data available

## **11.2 Additional Information**

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Circulatory collapse, tachypnea, paralysis, Convulsions, Coma., necrosis of mouth and G.I. Tract, Jaundice, respiratory failure, cardiac arrest  
Other dangerous properties can not be excluded.

This substance should be handled with particular care.

Handle in accordance with good industrial hygiene and safety practice.

Stomach - Irregularities - Based on Human Evidence

### **Components**

#### **Phenol**

##### **Acute toxicity**

Acute toxicity estimate Oral - 100.1 mg/kg

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Acute toxicity estimate Inhalation - 4 h - 0.51 mg/l - dust/mist

(Expert judgment)

Symptoms: Irritation, Lung edema

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

LD50 Dermal - Rat - female - 660 mg/kg

(OECD Test Guideline 402)

No data available

##### **Skin corrosion/irritation**

Skin - In vitro study

Result: Causes burns.

(OECD Test Guideline 431)

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

Eyes - Rabbit

Result: Corrosive

(OECD Test Guideline 405)

Remarks: Causes serious eye damage.

Risk of blindness!

##### **Respiratory or skin sensitization**

Sensitisation test: - Guinea pig

Result: negative

Remarks: (IUCLID)

**Germ cell mutagenicity**

Suspected of causing genetic defects.

Test Type: Mutagenicity (mammal cell test): chromosome aberration.

Test system: Chinese hamster ovary cells

Result: positive

Test Type: Mutagenicity (mammal cell test): micronucleus.

Test system: Chinese hamster ovary cells

Result: positive

**Carcinogenicity**

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

Acute inhalation toxicity - Irritation, Lung edema

**Specific target organ toxicity - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

- Nervous system, Kidney, Liver, Skin

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

**Aspiration hazard**

No data available

**guanidinium, thiocyanate (1:1)****Acute toxicity**

LD50 Oral - Rat - female - 593 mg/kg

(OECD Test Guideline 401)

Symptoms: Possible damages: , Nausea, Vomiting

Inhalation: No data available

Dermal: No data available

**Skin corrosion/irritation**

Skin - Rabbit

Result: Corrosive after 1 to 4 hours of exposure - 4 h

(OECD Test Guideline 404)

**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: *S. typhimurium*

Result: negative

Test Type: Mutagenicity (mammal cell test): chromosome aberration.

Test system: Human lymphocytes

Result: negative

Test Type: Mutagenicity (mammal cell test): chromosome aberration.

Test system: Chinese hamster fibroblasts

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Result: negative

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

Acute oral toxicity - Possible damages: Nausea, Vomiting

**Specific target organ toxicity - repeated exposure****Aspiration hazard**

No data available

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**SECTION 12: Ecological information****12.1 Toxicity****Mixture**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Endocrine disrupting properties**

No data available

**12.7 Other adverse effects**

No data available

**Components****Phenol**

Toxicity to fish

flow-through test LC50 - *Onchorhynchus clarki* - 8.9 mg/l - 96

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|   |   |
|---|---|
|   | h<br>(US-EPA)   |
| Toxicity to daphnia and other aquatic invertebrates                   | static test EC50 - Ceriodaphnia dubia (water flea) - 3.1 mg/l - 48 h<br>(US-EPA)          |
| Toxicity to algae   | static test EC50 - Pseudokirchneriella subcapitata (algae) - 61.1 mg/l - 96 h<br>(US-EPA) |
| Toxicity to bacteria  | static test IC50 - microorganisms - 21 mg/l - 24 h<br>Remarks: (ECHA)                     |
| Toxicity to fish(Chronic toxicity)                                    | semi-static test NOEC - Fish - 0.077 mg/l - 60 d<br>Remarks: (ECHA)                       |
| Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity) | semi-static test NOEC - Daphnia magna (Water flea) - 0.16 mg/l - 16 d<br>Remarks: (ECHA)  |

#### **guanidinium, thiocyanate (1:1)**

|   |  |
|---|--|
| Toxicity to fish                                    | static test LC50 - Poecilia reticulata (guppy) - ca. 89.1 mg/l - 96 h<br>(OECD Test Guideline 203) |
| Toxicity to daphnia and other aquatic invertebrates | static test EC50 - Daphnia magna (Water flea) - 42.4 mg/l - 48 h<br>(OECD Test Guideline 202)      |
| Toxicity to algae                                   | static test ErC50 - Desmodesmus subspicatus (green algae) - 130 mg/l - 72 h<br>(DIN 38412)         |
| Toxicity to bacteria                                | static test EC50 - activated sludge - > 185 mg/l - 28 h<br>Remarks: (ECHA)                         |

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## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

#### **Product**

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****DOT (US)**

UN number: 2922 Class: 8 (6.1) Packing group: II  
Proper shipping name: Corrosive liquids, toxic, n.o.s. (guanidinium, thiocyanate (1:1), Phenol)  
Reportable Quantity (RQ): 2000 lbs  
Poison Inhalation Hazard: No

**IMDG**

UN number: 2922 Class: 8 (6.1) Packing group: II EMS-No: F-A, S-B  
Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (guanidinium, thiocyanate (1:1), Phenol)  
Marine pollutant : yes

**IATA**

UN number: 2922 Class: 8 (6.1) Packing group: II  
Proper shipping name: Corrosive liquid, toxic, n.o.s. (guanidinium, thiocyanate (1:1), Phenol)

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**SECTION 15: Regulatory information****SARA 302 Components**

|        |                     |                             |
|--------|---------------------|-----------------------------|
| Phenol | CAS-No.<br>108-95-2 | Revision Date<br>2007-07-01 |
|--------|---------------------|-----------------------------|

**SARA 313 Components**

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

|        |                     |                             |
|--------|---------------------|-----------------------------|
| Phenol | CAS-No.<br>108-95-2 | Revision Date<br>2007-07-01 |
|--------|---------------------|-----------------------------|

**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

|        |                     |                             |
|--------|---------------------|-----------------------------|
| Phenol | CAS-No.<br>108-95-2 | Revision Date<br>2007-07-01 |
|--------|---------------------|-----------------------------|

**Pennsylvania Right To Know Components**

|        |                     |                             |
|--------|---------------------|-----------------------------|
| Phenol | CAS-No.<br>108-95-2 | Revision Date<br>2007-07-01 |
|--------|---------------------|-----------------------------|

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## SECTION 16: Other information

### Further information

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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