

# Safety Data Sheet

## CONGO RED, 0.2% in 70% ISOPROPANOL

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Congo Red, 0.2% in 70% Isopropanol

**Catalog Numbers:** SO-825

**Company Identification:** Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

### Section 2 - Hazards Identification

#### GHS Classifications

H225-Flammable Liquids: 2

H303-Acute toxicity, oral: 5

H319-Serious eye damage/eye irritation: 2A

H336-Specific target organ toxicity, single exposure; Narcotic effects: 3

H350-Carcinogenicity: 1B

H361-Reproductive toxicity: 2

H373-Specific target organ toxicity, repeated exposure: 2

#### Pictograms or Hazard symbols and Hazard Statement(s):



Signal Word: Danger

#### Hazard Statements:

H225-Highly flammable liquid and vapour

H303-May be harmful if swallowed

H319-Causes serious eye irritation

H336-May cause drowsiness or dizziness

H350-May cause cancer

H361-Suspected of damaging fertility or the unborn child

H373-May cause damage to organs through prolonged or repeated exposure (target organs: kidney and liver)

### 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.  
P233-Keep container tightly closed.  
P240-Ground/Bond container and receiving equipment.  
P241-Use explosion-proof electrical/ventilating/lighting/equipment.  
P242-Use only non-sparking tools.  
P243-Take action to prevent static discharges.  
P260-Do not breathe dust/fume/gas/mist/vapours/spray.  
P261-Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264-Wash thoroughly after handling.  
P271-Use only outdoors or in a well-ventilated area.  
P280-Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312-If swallowed: Call a Poison Center/doctor if you feel unwell.  
P303+P361+P353-If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
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.  
P308+P313-If exposed or concerned: Get medical advice/attention.  
P312-Call a Poison Center/doctor if you feel unwell.  
P314-Get medical attention if you feel unwell.  
P337+P313-If eye irritation persists: Get medical advice/attention.  
P370+P378-In case of fire: Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam to extinguish.  
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 in accordance with local/regional/national/international regulations.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
67-63-0	Isopropyl Alcohol	70 v/v
573-58-0	Congo Red	0.2 w/v
7732-18-5	Water	Balance

### Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical advice.

**Oral Exposure:** If swallowed, seek immediate medical advice. Do NOT induce vomiting. Rinse mouth with water.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

## Section 5 - Fire Fighting Measures

**General Information:** Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire.

**Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

**Hazardous Combustion Products:** Carbon oxides, nitrogen oxides, sodium oxides, sulfur oxides, peroxides, irritating and toxic fumes and gases.

**Flash Point:** Not available

**Autoignition Temperature:** Not available

**Explosion Limits, Lower:** Not available

**Upper:** Not available

**NFPA Rating:** (estimated) Health: 2; Flammability: 3; Instability: 0

## Section 6 - Accidental Release Measures

### **Procedure(s) of Personal Precaution(s):**

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation. Keep away from heat. Eliminate all sources of ignition. Take precautionary measures against static discharges.

**Methods for Cleaning up:** Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. Do not release to the environment. Do not release to drains.

## Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Wash thoroughly after handling. Use with adequate ventilation. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Store in a tightly closed container in a cool, dry, and well-ventilated area. Keep away from incompatible materials. Keep away from open flames, hot surfaces, and sources of ignition. Store away from direct sunlight. Use spark-proof tools and explosion-proof equipment. Properly ground metal parts of equipment. Take precautionary measures against static discharges. Vapors heavier than air may travel considerable distance and ignite or explode.

Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

**Exposure Limits:**

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Isopropyl Alcohol CAS#67-63-0	200 ppm TWA 400 ppm STEL	400 ppm TWA 980 mg/m <sup>3</sup> TWA 500 ppm STEL 1225 mg/m <sup>3</sup> STEL 2000 ppm IDLH	400 ppm TWA 980 mg/m <sup>3</sup> TWA
Congo Red CAS#573-58-0	Not listed	Not listed	Not listed

**OSHA Vacated PELs:** Isopropyl Alcohol: 400 ppm TWA; 980 mg/m<sup>3</sup> TWA; 500 ppm STEL; 1225 mg/m<sup>3</sup> STEL

Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** Red



**Odor:** Alcohol-like  
**Vapor Pressure:** Not available  
**Odor Threshold:** Not available  
**Vapor Density:** Not available  
**pH:** Not available  
**Relative Density:** Not available  
**Melting point/freezing point:** Not available  
**Solubility:** Soluble in water  
**Boiling Point:** Not available  
**Flash Point:** Not available  
**Evaporation Rate:** Not available  
**Flammability (solid, gas):** Not available  
**Partition coefficient: n-octanol/water:** Not available  
**Auto-ignition Temperature:** Not available  
**Decomposition Temperature:** Not available  
**Viscosity:** Not available  
**Specific Gravity/Density:** Not available

Section 10 - Stability and Reactivity
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**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Incompatible materials, ignition sources, excess heat, hot surfaces, open flames, and oxidizers. Direct sunlight.  
**Incompatibilities with Other Materials:** Oxidizing agents, acids, strong reducing agents, halogens, halogenated compounds, acid anhydrides, aluminum.  
  
**Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides, sodium oxides, sulfur oxides, peroxides, irritating and toxic fumes and gases.

Section 11 - Toxicological Information
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**CAS#67-63-0 Isopropyl Alcohol: RTECS#: NT8050000**  
 LD50 Oral: 5045 mg/kg (rat)  
 LD50 Oral: 3600 mg/kg (mouse)  
 LD50 Dermal: 12800 mg/kg (rat)  
 LC50 Inhalation: 72.6 mg/L 4h (rat)

**Carcinogenicity:** Isopropyl Alcohol CAS#67-63-0 is not listed by NTP, ACGIH, OSHA, or California Prop 65. Isopropyl Alcohol is listed by IARC (group 3, unclassifiable as to carcinogenicity in humans).

**CAS#573-58-0 Congo Red: RTECS#: QK1400000**

LD50 Oral: 15200 mg/kg (rat)

LD50 Dermal: Not available

LC50 Inhalation: Not available

Draize test, rabbit, eye: 100 mg moderate irritant

**Carcinogenicity:** Congo Red CAS#573-58-0 is not listed by IARC, NTP, ACGIH, or OSHA. Congo Red is listed by IARC (Group 1, Carcinogenic to Humans) and California Prop. 65 as a known carcinogen.

**Information on the likely routes of exposure:** Routes of entry anticipated: oral, dermal, inhalation, eye.

**Epidemiology:** Not available.

**Teratogenicity:** Teratogenic effects have occurred in experimental animals.

**Reproductive Effects:** Suspected of damaging the unborn child.

**Developmental Effects:** Not available.

**Neurotoxicity:** Not available.

**Mutagenicity:** Mutagenicity studies have been performed using microorganisms and laboratory animals.

**Specific Target Organ Toxicity, Single Exposure:** Respiratory system, central nervous system.

**Specific Target Organ Toxicity, Repeated Exposure:** Kidney and liver.

**Symptoms associated with exposure:** May cause CNS depression. Prolonged or repeated exposure can cause headache, dizziness, tiredness, nausea, vomiting, shortness of breath, convulsions/effect on seizure threshold, blood count changes. Toxic effect on lungs. Eye contact may result in eye pain or irritation, watering, redness. May harm the unborn child. May cause cancer. Acute dermal toxicity and acute inhalation toxicity are unknown for Congo Red.

**The toxicological properties of this material have not been thoroughly investigated.**

Section 12 - Ecological Information
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**Ecology:** Do not release to the environment. Do not release to drains.

**CAS#67-63-0 Isopropyl Alcohol:**

EC50, freshwater algae: >1000 mg/L 72h (desmodesmus subspicatus)

EC50, freshwater algae: >1000 mg/L 96h (desmodesmus subspicatus)

LC50, freshwater fish: 9640 mg/L 96h flow-through (pimephales promelas)

LC50, freshwater fish: 11130 mg/L 96h static (pimephales promelas)

LC50, freshwater fish: >1400000 µg/L 96h (lepomis macrochirus)

EC50, water flea: 13299 mg/L 48h

EC50, water flea: 9714 mg/L 24h  
EC50, microtox: 35390 mg/L 5min (photobacterium phosphoreum)

**CAS#573-58-0 Congo Red:**

LC50, water flea: 4 mg/L 48h (daphnia magna)

**Persistence and degradability:** Not available.

**Bio-accumulative potential:** Not available.

**Mobility:** Will likely be mobile in the environment due to its volatility and water solubility.

Section 13 - Disposal Considerations

**DISPOSAL:** Dispose of in accordance with all federal, state, and local regulations.

Section 14 - Transport Information

**DOT**

Proper shipping name: Isopropyl Alcohol  
UN1219  
PG II  
Hazard class 3 (flammable)

Section 15 - Regulatory Information

**Canada Regulatory Information**

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16 - Additional Information

**SDS Creation Date:** 10/21/12

**Revision #1.** RC 3/1/16

**Revision #2.** RC 3-1-16

**Revision #3.** 9-27-19

**Revision #4.** 9-26-22

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