

SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

SECTION 1 · COMPANY AND PRODUCT IDENTIFICATION

PRODUCT

Product Name: TOLUENE

Control Number: 0023

Product Description: Solvent

COMPANY IDENTIFICATION

Supplier: COLONIAL CHEMICAL SOLUTIONS, INC.

916 West Lathrop Avenue

Savannah, Georgia 31415

24 Hour Emergency Telephone: (800)-424-9300 CHEMTREC

General Information: (912) 236-1331

SECTION 2 · HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids Category 2

Skin irritation Category 2

Reproductive toxicity Category 2

Specific target organ toxicity - single exposure (Category 3), Central nervous system

Specific target organ toxicity - repeated exposure Category 2

Aspiration hazard Category 1

Short-term (acute) aquatic hazard Category 2

GHS Label elements, including precautionary statements

Pictograms



Signal Word: Danger

Hazard statements

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H401 Toxic to aquatic life.

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 precautionary measures against static discharge.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

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.

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SECTION 2 · HAZARDS IDENTIFICATION continued

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P331 Do NOT induce vomiting.
P332 + P313 If skin irritation occurs: 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.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%Weight
Toluene	108-88-3	≤ 100

Contains no impurities or stabilizing additives which themselves are classified and which contribute to the classification of this product.

SECTION 4 · FIRST AID MEASURES

FIRST AID PROCEDURES:

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Skin Contact: Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation develops.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention.

See Section 11 for **Signs and Symptoms of Exposure**

SECTION 5 · FIRE FIGHTING MEASURES

Suitable Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazardous combustion products: Oxides of carbon and various hydrocarbons

Fire Fighting Procedures: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Unusual Fire and Explosion Hazards: Containers can build up pressure if exposed to heat and/or fire. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire.

SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

Spills: Evacuate all non-essential personnel from the spill area. Eliminate all ignition sources. Suitable protective clothing should be worn. Shut off or plug source of spill.

Small spills: absorb on inert media and collect into suitable container.

Large Spills: Dike spill area to contain liquid. Salvage as much re-useable liquid as possible into a suitable container. Then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations.

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SECTION 7 · STORAGE AND HANDLING

Handling: Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Keep container closed and tightly sealed when not in use. Use good hygiene practices.

Storage: This material is a static accumulator. Use non-sparking tools. Store in a cool, dry, ventilated area, away from incompatible substances. Store only in approved properly labeled containers. Containers should be grounded and bonded.

SECTION 8 · EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Provide explosion-proof ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below.

Exposure Limits: Toluene 100 ppm ACGIH 100 ppm OSHA

Personal Protective Equipment (PPE):

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

Skin: If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

Clothing: Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

Respirators: Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

SECTION 9 · PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color/Odor: clear colorless / aromatic

Melting Point/Freezing Point: -135 °F

Boiling Point, Initial: 230 °F

Flash Point: 39 °F

Flammability (solid, gas): No available data

Flammability Limits: LEL: 1.2 UEL: 7

Autoignition Temperature: 995 °F

Decomposition Temperature: No available data

Relative Density: 0.865

pH: No available data

Viscosity, kinematic: No available data

Partition coefficient: n-octanol/water:

Relative Vapor Density (Air=1): No available data

Vapor Pressure (mmHg): 22

Evaporation Rate: No available data

Solubility in Water: 0.5 g/l

SECTION 10 · STABILITY AND REACTIVITY

Chemical Stability: Stable under normal use and temperature conditions.

Conditions to Avoid: Keep away from heat, flame and other potential ignition sources.

Incompatible materials: Strong oxidizing agents

Decomposition Products: When combusted, oxides of carbon and various hydrocarbons.

Possibility of Hazardous Reactions: No available information or data.

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SECTION 11 · TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure:

Skin: Contact can cause redness and irritation. Severity depends on the amount and duration of exposure.

Eyes: Vapors are irritating to the eyes. Liquid contact will cause stinging and tearing.

Inhalation: Excessive inhalation of high concentrations may be harmful. Mist or vapor can irritate the throat and lungs. Breathing this material may cause central nervous system depression.

Ingestion: If swallowed this material may irritate the mucous membranes of the mouth throat and esophagus. Aspiration of this material into the lungs may result in damage or death.

Acute oral toxicity:

Toluene: LD50 rat: > 5,580 mg/kg

Acute inhalation toxicity:

Toluene: LD50 rat: 12,500 - 28,800 mg/m³

Acute dermal toxicity:

Toluene: LD50 rabbit: 12,196 mg/kg

Germ Cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive Toxicity: Not classified

STOT single exposure: See Section 2

STOT repeated exposure: See Section 2

SECTION 12 · ECOLOGICAL INFORMATION

Aquatic Toxicity: LC50 - *Oncorhynchus mykiss* (rainbow trout) - 7.63 mg/l - 96 h

NOEC - *Pimephales promelas* (fathead minnow) - 5.44 mg/l - 7 d

Biodegradability aerobic: Exposure time 20 d Result: 86 % - Readily biodegradable.

Bio-accumulative potential: *Leuciscus idus* (Golden orfe) - 3 d Bioconcentration factor (BCF): 90

Mobility: Accidental spillage may lead to penetration in the soil.

SECTION 13 · DISPOSAL CONSIDERATIONS

Chemical waste generators must determine at the time of disposal, whether a discarded chemical is classified as a hazardous waste. Chemical additions, processing or otherwise altering this material may make waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14 · TRANSPORTATION

U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

Proper Shipping Name: Toluene

Hazard Class: 3

UN Number: 1294

Packaging Group: 2

Poison Inhalation Hazard: No

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SECTION 15 · REGULATORY INFORMATION

US FEDERAL REGULATIONS

Comprehensive Environmental Response and Liability Act (CERCLA) This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material has is 1000 pounds. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.

Toxic Substance Control Act (TSCA): All components of this product are on the Chemical Substance Inventory and designated as active in U.S. commerce.

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA Section 313 (40 CFR 372) Hazard Categories: This product contains the following toxic chemical subject to reporting requirements: Toluene

Clean Water Act: This product contains Toluene a chemical listed as a Hazardous Substance under the CWA.

Clean Air Act: This product contains Toluene a chemical listed as a Hazardous Substance under the CAA.

California Prop 65: This product contains Toluene a chemical known by the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16 · OTHER INFORMATION

SDS Revision Date: January 2020

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.

Health: 2

Flammability: 3

Reactivity: 0

The information above is believed to be accurate and represents the best information currently available to us. However, Colonial Chemical Solutions makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Colonial be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Colonial has been advised of the possibility of such damages. The vendor assumes no responsibility for injury or damages resulting from the inappropriate alteration or manipulation of this SDS and its contents from that originally submitted by Colonial.