SAFETY DATA SHEET

This SDS Complies With 29 CFR 1910.1200 (The Hazard Communication Standard)

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Section I - Product & Company Identification

Product identifier

Product name : TOLUENE
Product form: Liquid
Other means of identification: R04000

Relevant identified uses of the substance or mixture: Solvent

Details of the supplier of the safety data sheet

Eaton Chemical, Inc.
4124 NW Riverside Street Riverside, MO 64150
Phone: (816) 741-7985
Fax: (816) 741-0405
Email: custserv@eatonchemical.com

Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

Section II – Hazards Identification

Classification

Flammable Liquids- Category 2
Skin corrosion/ irritation – Category 2
Reproductive toxicity – Category 2
Specific target organ toxicity (single exposure) - Category 3, Narcotic effects.
Specific target organ toxicity (repeated exposure) – Category 2
Aspiration hazard – Category 1
Acute aquatic toxicity – Category 2
Pictogram



Signal Word

Danger

Hazard Statements
Highly flammable liquid and vapor.
Causes skin irritation.
May be fatal if swallowed and enters airways.
Suspected of damaging fertility or the unborn child.
May cause drowsiness and dizziness.
May cause damage to organs through prolonged or repeated exposure.
Toxic to aquatic life.

Precautionary Statements – Prevention
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Keep away from heat/sparks/open flames/hot surfaces- No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Use in well-ventilated area.
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing mist/vapors/spray.
Avoid release to the environment.

Precautionary Statements – Response
In case of fire: Consider carbon dioxide, dry chemical, dry sand or alcohol resistant foam to extinguish.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation occurs
IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. If irritation occurs get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call POISON CENTER/doctor if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
IF EXPOSED OR CONCERNED: Get medical advice/attention.

Precautionary Statements – Storage
Store in a well ventilated place, keep container tightly closed. Keep cool. Store locked up.

Precautionary Statements – Disposal
Dispose of contents/container to an approved waste treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal

Section III –Composition/Information on ingredients

Mixture

Name	CAS #	Weight %
Toluene	108-88-3	90-100

Any concentration shown as a range is to protect confidentiality or is due to process variation.

Section IV – First Aid Measures

First Aid Measures

Inhalation: Remove to fresh air. If breathing stops, provide artificial respiration. If symptoms persist, call a physician.

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

Ingestion: Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

Skin Contact: Remove contaminated clothing, wash skin with plenty of water. If skin irritation persists, call a physician.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms
May cause skin irritation.
May cause dizziness or drowsiness.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians: Treat symptomatically. Symptoms may be delayed.

Section V – Fire Fighting Measures

Suitable Extinguishing Media
Alcohol resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media: High volume water jet.
Specific Hazards Arising from the Chemical
Carbon oxides
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH approved and full protective gear.

Section VI –Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe area.

Methods and Material for Containment and Cleaning Up

Methods for Containment: Eliminate all ignition sources. Prevent further leakage or spillage if safe to do so. Prevent discharge to open bodies of water, municipal sewers, and watercourses.

Methods for Cleaning Up: Use non-combustible material like vermiculite, sand or earth to soak up the product and place into a suitable container for later disposal. Following product recovery, flush area with water. Scrub area with detergent and water.

Section VII – Handling & Storage

Precautions for Safe Handling

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.

Section VIII – Exposure Controls/ Personal Protection

Exposure Guidelines

Chemical Name	CAS #	ACGIH TLV	OSHA PEL	NIOSH
Toluene	108-88-3	TWA: 20 ppm	TWA: 100 ppm 375 mg/m^3 STEL:150 ppm 560 mg/m^3	TWA: 100 ppm 375 mg/m^3 STEL:150 ppm 560 mg/m^3

Appropriate Engineering Controls

Engineering Controls: Provide adequate ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection: Wear approved chemical safety goggles/face shield where a splash hazard exists. Eyewash station is recommended.
Skin and Body Protection: Wear suitable protective clothing.
Respiratory Protection: Ensure adequate ventilation, especially in confined areas.
General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

Section IX – Physical & Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State	Liquid
Color	Colorless

Property	**Values**
pH	No data available
Melting Point/Freezing Point	-93 °C (-135 °F)

Boiling Point/Boiling Range	110-111 º C (230-232 º F)
Flash Point	4 °C (39.2 °F) TCC
Evaporation Rate	2 (Butyl acetate = 1)
Flammability (Solid,Gas)	n/a-liquid
Upper Flammable Limits	7%
Lower Flammable Limits	1.2%
Vapor Pressure	29.1 hPa (21.8 mmHg) at 20 º C(68 º F)
Vapor Density	3.14 (Air=1)
Specific Gravity	0.87
Water Solubility	Insoluble
Solubility in Other Solvents	No data available
Partition Coefficient	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Kinematic Viscosity	No data available
Dynamic Viscosity	No data available
Explosive Properties	Not an Explosive
Oxidizing Properties	No data available
Odor	Aromatic. Benzene like.
Odor Threshold	No data available

Section X – Stability & Reactivity

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

Conditions to Avoid

Heat, sparks, flames, incompatible materials..

Incompatible Materials

Strong oxidizing agents, reducing agents, acids, alkalis..

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide and/or low weight hydrocarbons.

Section XI - Toxicological information

Information on Likely Routes of Exposure

Product Information :

Inhalation: Harmful if inhaled. May cause drowsiness or dizziness.
Eye Contact: May cause eye irritation
Skin Contact: Harmful in contact with skin. Causes skin irritation.
Ingestion: May be fatal if swallowed and enters airways.

This product as a whole has not been tested for acute toxicity; the following is based on component data:

Chemical Name	CAS #	Oral LD50	Dermal LD50	Inhalation LC50
Toluene	108-88-3	>5580 mg/kg (rat)	12196 mg/kg (Rabbit)	12500-28800 mg/kg 4 h(Rat)

Chemical Name	Toluene
Skin corrosion/irritation	Skin irritation
Serious eye damage/irritation	eye irritation
Respiratory or skin sensitization	Not classified
Mutagenicity	Not classified
Carcinogenicity	Not classifiable as to humans.
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity-Single exposure	Central nervous system Inhalation may cause drowsiness or dizziness
Specific target organ toxicity-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity: This product does not contain carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical Measures of Toxicity: Not determined

Section XII – Ecological information

Ecotoxicity

There is no data available for this product as a whole.

Chemical Name	CAS #	Algae/aquatic plants	Fish	Aquatic invertebrates
Toluene	108-88-3	EC50- Chlorella vulgarius (Fresh water algae)-245 mg/l – 24 h	LC50 - Oncorhynchus mykiss (rainbow trout) –7.63 mg/l - 96 h	EC50-Daphnia magna(Water flea)-8.00 mg/l – 24 h

Persistence and Degradability

No data available

Bioaccumulation

No data available

Mobility

No data available

Section XIII - Disposal considerations

Waste Disposal Method

Dispose of material in accordance with all Federal, State and local regulations. Local regulations may be more stringent than Federal or State. Avoid discharge to sewers or waterways.

Section XIV - Transport information

DOT Proper Shipping Description:

Bulk & Non-Bulk : UN1294, Toluene, 3, PGII

Section XV - Regulatory information

SARA Title III Section 311/312 (40CFR370): Fire, acute and chronic health hazards.
SARA Title III Section 313 (40CFR372): One reportable component. Toluene
RCRA Status (40CFR261.33): No reportable components.
TSCA Inventory Status: Reported/included
OSHA/NTP/IARC Carcinogen Status: Not listed.
Canadian DSL Status: Reported/included
Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity: Toluene.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Toluene	X	X	X

Section XVI - Other information

HMIS ratings: Health: 2*
Flammability: 3
Reactivity: 0

Indication of changes: Revision – 1

Date Sheet Prepared: 02/10/2016 Other information: Author – EHS Administrator

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The information herein is presented in good faith and believed to be correct as of the date hereof. However, the manufacturer makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

No representations or warranty's, either express or implied of merchantability, fitness for a particular purpose or of any other nature with respect to the product or to the information herein is made hereunder. The manufacturer shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use of or reliance upon information contained herein.

END OF SDS