

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product Name TOLUENE MSDS# 0000000133

Historic MSDS#: 05467 Amoco, 10027

BP

EMERGENCY HEALTH INFORMATION: EMERGENCY SPILL

1 (800) 424-9300 CHEMTREC (USA)

1 (800) 447-8735

OTHER PRODUCT INFORMATION

INFORMATION:

1 (866) 4 BP - MSDS (866-427-6737 Toll Free - North America)

email: bpcares@bp.com

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Inhalation

Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness, and nausea, and may lead to unconsciousness or death. May cause respiratory tract irritation.

Ingestion

Aspiration hazard if swallowed- can enter lungs and cause damage. Ingestion may cause gastrointestinal irritation and diarrhea.

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Section 8. Exposure Controls, Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their

respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station

location.

Personal Protection

Eyes Avoid contact with eyes. Chemical splash goggles.

Skin and Body Avoid prolonged or repeated contact with skin. Wear protective clothing if prolonged or repeated contact is likely.

Respiratory Use with adequate ventilation. Avoid breathing vapor or mist. If ventilation is inadequate, use a NIOSH certified

respirator with an organic vapor cartridge and P95 particulate filter.

Hands Wear protective gloves if prolonged or repeated contact is likely.

Chemical name Exposure Limits

1) TOLUENE ACGIH (United States, 1996). Skin

TWA: 188 mg/m³ TWA: 50 ppm

OSHA Final Rule (United States, 1989).

STEL: 560 mg/m³ STEL: 150 ppm TWA: 375 mg/m³ TWA: 100 ppm

OSHA Transitional Rule (United States, 1993).

AMP: 500 ppm Period: 10 minute(s).

CEIL: 300 ppm TWA: 200 ppm

Consult local authorities for acceptable exposure limits.

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Liquid. Aromatic.

7 [Neutral.] Clear. Colorless.

Boiling/Condensation Point 110.5°C (230.9°F) (1013 millibars)

Melting/Freezing Point -95°C (-139°F)

318.7°C (605.7°F) 0.867 (Water = 1)

2.9 kPa (21.8 mmHg) (at 20°C)

3.18 (Air = 1) Not available.

2 compared to (n-BUTYL ACETATE=1)

Dynamic: 0.59 cP at 20°C

2.6

negligible < 0.1% at 20°C

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Section 11. Toxicological Information

Acute toxicity Acute oral toxicity (LD50): >5000 mg/kg [Rat].

Acute dermal toxicity (LD50): >10000 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 5060 ppm 4 hour(s) [Rat].

Chronic toxicity CARCINOGENIC EFFECTS: No component of this pr

CARCINOGENIC EFFECTS: No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).

Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [TOLUENE].

MUTAGENIC EFFECTS: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.

TERATOGENIC EFFECTS/DEVELOPMENTAL TOXICITY: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

REPRODUCTION TOXICITY: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a reproductive toxin.

Other information

Other information

Aspiration of this material into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the

lungs can occur while vomiting after ingestion of this material. Toluene: Deliberate inhalation to concentrated levels of toluene may cause brain and nervous system damage and possibly death. Mental and/or growth retardation may also occur in children of women who deliberately inhale toluene (usually at thousands of ppm). Pregnant rats exposed to toluene at levels greater than approximately 1500 ppm caused adverse fetal developmental effects.

Prolonged, high exposure to toluene has resulted in hearing loss in laboratory animals.

Section 12. Ecological Information

Ecotoxicity 24 mg/l [LC50], 96 hours [Fish (Bluegill.)]. 11.5 mg/l [EC50], 48 hours [Daphnia (daphnia)]. >400 mg/l [IC50],

96 hours [Algae (Algae.)].

Persistence Potential This product is readily biodegradable.

Mobility This product is not likely to move rapidly with surface or groundwater flows because of its low water solubility of: <

0.1% at 20°C

Bioaccumulative potential This product is not expected to bioaccumulate through food chains in the environment.

Avoid contact of spilled material and runoff with soil and surface waterways. Burn in an appropriate incinerator or offer to a licensed hazardous waste disposal contractor. Dispose of in accordance with all applicable local and national regulations.

TOLUENE		Page: 5/6
Proper shipping name	Toluene	
ADR/RID Class	3	
Packing Group	II	
IMO/IMDG Classification		
Proper shipping name	Toluene	
IMDG Class	3	
UN number	UN1294	
Packing Group	II	
Marine Pollutant	Not pollutant.	
ICAO/IATA Classification		
Proper shipping name	Toluene	
IATA Class	3	
UN number	UN1294	
Packing Group	II	

U.S. Regulations

Pennsylvania RTK: TOLUENE: (environmental hazard, generic environmental hazard) Florida: TOLUENE

Minnesota: TOLUENE
Massachusetts RTK: TOLUENE
New Jersey: TOLUENE

Marine Pollutant

N269

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Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



HISTORY

10/8/2001. **Date of issue**

Version

Prepared by **Product Stewardship**

Notice to Reader
NOTICE: This Material Safety Data Sheet is based upon data considered to be accurate at the time of its preparation. Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. We are not responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices or from hazards inherent in the nature of the product.

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.