

Painters Pride 54 Toluene 20049

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE

MANUFACTURER'S NAME: CUMBERLAND PRODUCTS INCORPORATED
ADDRESS: 50 COMMERCE PARKWAY
HODGENVILLE, KY 42748

EMERGENCY PHONE : (800) 424 - 9300
INFORMATION PHONE : (800) 223 - 1918
FAX NUMBER : (800) 500 - 9812

PRODUCT NAME Painters Pride 54 Toluene
PRODUCT CODE 20049
PRODUCT USE DESCRIPTION Solvent

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, colorless

WARNING! FLAMMABLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. HARMFUL IF INHALED. MAY BE HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE EYE IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRRITATION AND BURNS. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin contact

May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Upper respiratory tract, Skin, lung (for example, asthma-like conditions), kidney, Central nervous system, auditory system, Individuals with preexisting heart disorders maybe more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

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Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:., metallic taste, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, temporary changes in mood and behavior, Weakness, Lack of coordination, confusion, irregular heartbeat, coma, and death

Target Organs

Prolonged intentional toluene abuse may lead to damage to many organ systems having effects on: central and peripheral nervous systems, vision, hearing, liver, kidneys, heart and blood. Such abuse has been associated with brain damage characterized by disturbances in gait, personality changes and loss of memory. Comparable central nervous system effects have not been shown to result from occupational exposure to toluene., Prolonged intentional toluene abuse may lead to hearing loss progressing to deafness. In addition, while noise is known to cause hearing loss in humans, it has been suggested that workers exposed to organic solvents, including toluene, along with noise may suffer greater hearing loss than would be expected from exposure to noise alone., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:., mild, reversible liver effects, mild, reversible kidney effects, respiratory tract damage (nose, throat, and airways), effects on hearing, central nervous system damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans:., kidney damage

Carcinogenicity

This material is not expected to cause cancer in humans since it did not cause cancer in laboratory animals. This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

Toluene may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intentional abuse of toluene during pregnancy can cause birth defects in humans.

3. COMPOSITION/INFORMATION ON INGREDIENTS
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<u>Hazardous Components</u>	<u>CAS-No.</u>	<u>Concentration</u>
TOLUENE	108-88-3	<=100%

FIRST AID MEASURES

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

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Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 2 - Swallowing) when deciding whether to induce vomiting.

Treatment: No information available.

4. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Foam, Carbon dioxide (CO₂), Dry chemical

Hazardous combustion products

carbon dioxide and carbon monoxide, Hydrocarbons

Precautions for fire-fighting

Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

NFPA Flammable and Combustible Liquids Classification

Flammable Liquid Class IB

5. ACCIDENTAL RELEASE MEASURES**Personal precautions**

For personal protection see section 8. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks).

Environmental precautions

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

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Methods for cleaning up

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77. Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering or pumping at high flow rates. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

Storage

Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatible substances. Store out of direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

TOLUENE		108-88-3
ACGIH	time weighted average	20 ppm
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	375 mg/m3
NIOSH	Short term exposure limit	150 ppm
NIOSH	Short term exposure limit	560 mg/m3
OSHA Z2	time weighted average	200 ppm
OSHA Z2	Ceiling Limit Value:	300 ppm
OSHA Z2	Maximum concentration:	500 ppm

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s). Explosion-proof ventilation system is acceptable.

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Eye protection

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin and body protection

To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Wear resistant gloves such as:

polyvinyl alcohol

Respiratory protection

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	No data
Color	colorless
Odor	hydrocarbon-like
Boiling point/boiling range	110.60 °C
Melting point/range	-138.8 °F / -94.9 °C
Ph	No data
Flash point	4.44 °C Closed Cup
Evaporation rate	2.00 (n-Butyl Acetate)
Lower explosion limit/Upper explosion limit	1.27 %(V) / 7 %(V)
Vapour pressure	3.786 kPa @ 25 °C
Vapour density	3.1 (AIR=1)
Density	0.87 g/cm ³ @ 68.00 °F / 20.00 °C 7.25 lb/gal @ 68 °F / 20 °C
Solubility	negligible in water
Partition coefficient: n-octanol/water	No data
log Pow	2.73
Autoignition temperature	896 °F / 480 °C

10. STABILITY AND REACTIVITY**Stability**

Stable.

Conditions to avoid

None known.

Incompatible products

Strong acids, Strong oxidizing agents

Hazardous decomposition products

carbon dioxide and carbon monoxide, Hydrocarbons

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Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD 50 Rat: 2,600 - 7,500 mg/kg
Acute inhalation toxicity : LC 50 Rat: 8000 ppm, 4 h
Acute dermal toxicity : LD 50 Rabbit: 12,124 mg/kg

12. ECOLOGICAL INFORMATION

Biodegradability

TOLUENE : no data available

Bioaccumulation

TOLUENE : Species: Ide, silver or golden orfe (Leuciscus idus)
 Exposure time: 3 d
 Dose: 0.05 mg/l
 Bioconcentration factor (BCF): 94
 Method: Not reported

Ecotoxicity effects

Toxicity to fish

TOLUENE : 96 h LC 50 Rainbow trout, donaldson trout
 (Oncorhynchus mykiss): 5.80 mg/l
 Method: Renewal
 Mortality 96 h LC 50 Fathead minnow (Pimephales
 promelas): 12.60 mg/l
 Method: Static
 Mortality

Toxicity to daphnia and other aquatic invertebrates.

TOLUENE : 48 h EC 50 Water flea (Daphnia magna): 6.00 mg/l
 Method: Static
 Intoxication

Toxicity to algae

TOLUENE : no data available

Toxicity to bacteria

TOLUENE : no data available

Biochemical Oxygen Demand (BOD)

TOLUENE : no data available

Chemical Oxygen Demand (COD)

TOLUENE : no data available

Additional ecological information

TOLUENE : no data available

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13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Destroy by incineration in accordance with applicable regulations

14. TRANSPORT INFORMATION

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /LTD. QTY.
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U.S. DOT - ROAD

UN 1294 Toluene		3		II	
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U.S. DOT - RAIL

UN 1294 Toluene		3		II	
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U.S. DOT - INLAND WATERWAYS

UN 1294 Toluene		3		II	
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TRANSPORT CANADA - ROAD

UN 1294 TOLUENE		3		II	
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TRANSPORT CANADA - RAIL

UN 1294 TOLUENE		3		II	
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TRANSPORT CANADA - INLAND WATERWAYS

UN 1294 TOLUENE		3		II	
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INTERNATIONAL MARITIME DANGEROUS GOODS

UN 1294 TOLUENE		3		II	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN 1294 Toluene		3		II	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN 1294 Toluene		3		II	
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN 1294 TOLUENO		3		II	
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*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

BENZENE

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

TOLUENE

BENZENE

MATERIAL SAFETY DATA SHEET

Page: 8 of 8
 Revision Date: 01/13/2010
 Print Date: 6/23/2010
 MSDS Number: R0000565
 Version: 5.6

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SARA Hazard Classification

Fire Hazard
 Acute Health Hazard

SARA 313 Component(s)

TOLUENE 100.00 %

New Jersey RTK Label Information

TOLUENE 108-88-3

Pennsylvania RTK Label Information

TOLUENE 108-88-3
 BENZENE 71-43-2

Notification status

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)
Japan. Kashin-Hou Law List	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
US. Toxic Substances Control Act	y (positive listing)
EU. EINECS	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Japan. Industrial Safety & Health Law (ISHL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	y (positive listing)
Switzerland. Consolidated Inventory	y (positive listing)

Reportable quantity - Product

US. EPA CERCLA Hazardous Substances (40 CFR 302) 1000 lbs

Reportable quantity-Components

TOLUENE 108-88-3 1000 lbs

	HMIS	NFPA
Health	1*	2
Flammability	3	3
Physical hazards	0	
Instability		0
Specific Hazard	--	--

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.