

SAFETY DATA SHEET

Revision Date 03-Mar-2016 Version 1

1. IDENTIFICATION

Product identifier

Product Name CONTACT CEMENT 1.5 FL.OZ.

Other means of identification

Product Code 25905 Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use Contact adhesive
Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address Distributor

ITW PermatexITW Permatex Canada6875 Parkland Blvd.35 Brownridge Road, Unit 1Solon, OH 44139 USAHalton Hills, ON Canada L7G 0C6

Telephone: (800) 924-6994

Company Phone Number 1-87-Permatex

(877) 376-2839

24 Hour Emergency Phone Number Chem-Tel: 800-255-3924

International Emergency: 00+1+ 813-248-0585

Contract Number: MIS0003453

E-mail address mail@permatex.com

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 1
Flammable liquids	Category 2

Label elements

Emergency Overview

Danger

Causes skin irritation

Causes serious eye irritation

Suspected of damaging fertility or the unborn child

May cause drowsiness or dizziness

May cause damage to organs through prolonged or repeated exposure May be fatal if swallowed and enters airways

Highly flammable liquid and vapor



Appearance Clear Physical state Liquid Odor Solvent

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

Wash face, hands and any exposed skin thoroughly after handling

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

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Use only non-sparking tools

Take precautionary measures against static discharge

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label)

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

- Toxic to aquatic life with long lasting effects
- The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

3. COMPOSITION/INFORMATION ON INGREDIENTS

substance(s)

Chemical Name	CAS No	Weight-%	Trade Secret
ACETONE	67-64-1	10 - 30	*
TOLUENE	108-88-3	10 - 30	*
N-HEXANE	110-54-3	7 - 13	*
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPH.	64742-89-8	7 - 13	*
HEPTANE	142-82-5	3-10	*
CYCLOHEXANE	110-82-7	1 - 5	*
CYCLOPENTANE	287-92-3	1 - 5	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice Get medical advice/attention if you feel unwell.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin contact IF ON SKIN:. Wash skin with soap and water. If skin irritation persists, call a physician.

Wash contaminated clothing before reuse.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If symptoms persist, call a physician.

Ingestion IF SWALLOWED:. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Call a physician or poison control center immediately.

Self-protection of the first aider

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms See section 2 for more information.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2), Dry chemical, Foam

Unsuitable extinguishing media

None.

Specific hazards arising from the chemical

Highly flammable.

Explosion data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

contact with eyes and skin. Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system. See Section 12 for additional

ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Soak up with

inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing

vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric

motors and static electricity).

Incompatible materials Strong oxidizing agents, Strong acids, Strong bases

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ACETONE	STEL: 750 ppm	TWA: 1000 ppm	IDLH: 2500 ppm
67-64-1	TWA: 500 ppm	TWA: 2400 mg/m ³	TWA: 250 ppm
		(vacated) TWA: 750 ppm	TWA: 590 mg/m ³
		(vacated) TWA: 1800 mg/m ³	
		(vacated) STEL: 2400 mg/m ³ The	
		acetone STEL does not apply to the	
		cellulose acetate fiber industry. It is	
		in effect for all other sectors	
		(vacated) STEL: 1000 ppm	
TOLUENE	TWA: 20 ppm	TWA: 200 ppm	IDLH: 500 ppm
108-88-3		(vacated) TWA: 100 ppm	TWA: 100 ppm
		(vacated) TWA: 375 mg/m ³	TWA: 375 mg/m ³
		(vacated) STEL: 150 ppm	STEL: 150 ppm
		(vacated) STEL: 560 mg/m ³	STEL: 560 mg/m ³
		Ceiling: 300 ppm	
N-HEXANE	TWA: 50 ppm	TWA: 500 ppm	IDLH: 1100 ppm
110-54-3	S*	TWA: 1800 mg/m ³	TWA: 50 ppm
		(vacated) TWA: 50 ppm	TWA: 180 mg/m ³
		(vacated) TWA: 180 mg/m ³	
HEPTANE	STEL: 500 ppm	TWA: 500 ppm	IDLH: 750 ppm
142-82-5	TWA: 400 ppm	TWA: 2000 mg/m ³	Ceiling: 440 ppm 15 min
		(vacated) TWA: 400 ppm	Ceiling: 1800 mg/m ³ 15 min
		(vacated) TWA: 1600 mg/m ³	TWA: 85 ppm
		(vacated) STEL: 500 ppm	TWA: 350 mg/m ³
		(vacated) STEL: 2000 mg/m ³	

CYCLOHEXANE 110-82-7	TWA: 100 ppm	TWA: 300 ppm TWA: 1050 mg/m³ (vacated) TWA: 300 ppm (vacated) TWA: 1050 mg/m³	IDLH: 1300 ppm TWA: 300 ppm TWA: 1050 mg/m³
CYCLOPENTANE 287-92-3	TWA: 600 ppm	(vacated) TWA: 1030 mg/m³ (vacated) TWA: 600 ppm (vacated) TWA: 1720 mg/m³	TWA: 600 ppm TWA: 1720 mg/m ³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls Showers

> Evewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves. Skin and body protection

Respiratory protection Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as

appropriate.

Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of **General Hygiene Considerations**

equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Liquid Physical state Appearance Clear Odor Solvent

Odor threshold No information available

Property Values Remarks • Method

No information available pН Melting point / freezing point No information available

Boiling point / boiling range 49.3-110.6 °C / 120.7-231.0 °F

-37 °C / -35 °F Flash point

Evaporation rate Butyl acetate = 1 No information available

Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit:

12.8% Lower flammability limit: 1.0%

Vapor pressure No information available Vapor density No information available

Relative density 0.81

Water solubility Slightly soluble

No information available Solubility in other solvents Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available Dynamic viscosity No information available **Explosive properties** No information available Oxidizing properties No information available

Other Information

25905 - CONTACT CEMENT 1.5 FL.OZ.

Softening pointNo information availableMolecular weightNo information available

VOC Content (%) 36.9%

DensityNo information availableBulk densityNo information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases

Hazardous Decomposition Products

Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation May cause irritation of respiratory tract. May cause drowsiness or dizziness.

Eye contact Contact with eyes may cause irritation. May cause redness and tearing of the eyes.

Skin contact May cause skin irritation and/or dermatitis.

Ingestion Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and

pneumonitis.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
ACETONE	= 5800 mg/kg (Rat)	-	= 50100 mg/m ³ (Rat) 8 h
67-64-1			
TOLUENE	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat) 4 h
108-88-3			
N-HEXANE	= 25 g/kg (Rat)	= 3000 mg/kg (Rabbit)	= 48000 ppm (Rat) 4 h
110-54-3			
SOLVENT NAPHTHA	-	= 3000 mg/kg (Rabbit)	-
(PETROLEUM), LIGHT ALIPH.			
64742-89-8			
HEPTANE	-	= 3000 mg/kg (Rabbit)	= 103 g/m ³ (Rat) 4 h
142-82-5			
CYCLOHEXANE	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 13.9 mg/L (Rat) 4 h
110-82-7			
CYCLOPENTANE	= 11400 mg/kg (Rat)	-	-
287-92-3			

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
TOLUENE	-	Group 3	=	-
108-88-3		·		

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

Chronic toxicity May cause adverse liver effects.

Target Organ Effects Central nervous system, Eyes, kidney, Liver, Peripheral Nervous System (PNS),

Respiratory system, Skin.

The following values are calculated based on chapter 3.1 of the GHS document .

 ATEmix (oral)
 7631 mg/kg

 ATEmix (dermal)
 8754 mg/kg

 ATEmix (inhalation-vapor)
 387097 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

0 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
ACETONE	-	4.74 - 6.33: 96 h Oncorhynchus	10294 - 17704: 48 h Daphnia
67-64-1		mykiss mL/L LC50 6210 - 8120: 96	magna mg/L EC50 Static 12600 -
		h Pimephales promelas mg/L LC50	12700: 48 h Daphnia magna mg/L
		static 8300: 96 h Lepomis	EC50
		macrochirus mg/L LC50	
TOLUENE	433: 96 h Pseudokirchneriella	15.22 - 19.05: 96 h Pimephales	5.46 - 9.83: 48 h Daphnia magna
108-88-3	subcapitata mg/L EC50 12.5: 72 h	promelas mg/L LC50 flow-through	mg/L EC50 Static 11.5: 48 h
	Pseudokirchneriella subcapitata	12.6: 96 h Pimephales promelas	Daphnia magna mg/L EC50
	mg/L EC50 static	mg/L LC50 static 5.89 - 7.81: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		flow-through 14.1 - 17.16: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		static 5.8: 96 h Oncorhynchus	
		mykiss mg/L LC50 semi-static 11.0 -	
		15.0: 96 h Lepomis macrochirus	
		mg/L LC50 static 54: 96 h Oryzias	
		latipes mg/L LC50 static 28.2: 96 h	
		Poecilia reticulata mg/L LC50	
		semi-static 50.87 - 70.34: 96 h	
		Poecilia reticulata mg/L LC50 static	
N-HEXANE	-	2.1 - 2.98: 96 h Pimephales	1000: 24 h Daphnia magna mg/L
110-54-3		promelas mg/L LC50 flow-through	EC50
SOLVENT NAPHTHA	4700: 72 h Pseudokirchneriella	-	-
(PETROLEUM), LIGHT ALIPH.	subcapitata mg/L EC50		
64742-89-8			
HEPTANE	-	375.0: 96 h Cichlid fish mg/L LC50	10: 24 h Daphnia magna mg/L
142-82-5			EC50
CYCLOHEXANE	500: 72 h Desmodesmus	3.96 - 5.18: 96 h Pimephales	400: 24 h Daphnia magna mg/L
110-82-7	subspicatus mg/L EC50	promelas mg/L LC50 flow-through	EC50
		23.03 - 42.07: 96 h Pimephales	
		promelas mg/L LC50 static 24.99 -	
		44.69: 96 h Lepomis macrochirus	
		mg/L LC50 static 48.87 - 68.76: 96	
		h Poecilia reticulata mg/L LC50	
		static	
CYCLOPENTANE	-	-	10.5: 48 h Daphnia magna mg/L
287-92-3			EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Chemical Name	Partition coefficient
ACETONE	-0.24
67-64-1	
TOLUENE	2.65
108-88-3	
HEPTANE	4.66
142-82-5	
CYCLOHEXANE	3.44
110-82-7	
CYCLOPENTANE	2.05
287-92-3	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastesThis material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

Contaminated packaging Do not reuse container.

US EPA Waste Number D001

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
ACETONE	-	Included in waste stream:	-	U002
67-64-1		F039		
TOLUENE	U220	Included in waste streams:	-	U220
108-88-3		F005, F024, F025, F039,		
		K015, K036, K037, K149,		
		K151		
CYCLOHEXANE	-	-	-	U056
110-82-7				

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
TOLUENE	-	=	Toxic waste	=
108-88-3			waste number F025	
			Waste description:	
			Condensed light ends, spent	
			filters and filter aids, and	
			spent desiccant wastes from	
			the production of certain	
			chlorinated aliphatic	
			hydrocarbons, by free	
			radical catalyzed processes.	
			These chlorinated aliphatic	
			hydrocarbons are those	
			having carbon chain lengths	
			ranging from one to and	
			including five, with varying	
			amounts and positions of	
			chlorine substitution.	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
ACETONE	Ignitable
67-64-1	
TOLUENE	Toxic
108-88-3	Ignitable

N-HEXANE	Toxic
110-54-3	Ignitable
HEPTANE	Toxic
142-82-5	Ignitable
CYCLOHEXANE	Toxic
110-82-7	Ignitable
CYCLOPENTANE	Toxic
287-92-3	Ignitable

14. TRANSPORT INFORMATION

DOT

UN/ID no 1133

Proper shipping name: Adhesives, Limited Quantity (LQ)

Hazard Class 3
Packing Group II
Emergency Response Guide 128

Number

IATA

UN/ID no ID 8000

Proper shipping name: Consumer commodity

Hazard Class 9 ERG Code 9L

IMDG

UN/ID no 1133

Proper shipping name: Adhesives, Limited Quantity (LQ)

Hazard Class 3 Packing Group II

EmS-No F-E, S-D

15. REGULATORY INFORMATION

International Inventories

TSCA Complies Complies DSL/NDSL Not Listed. **EINECS/ELINCS** Not Listed. **ENCS IECSC** Complies **KECL** Complies **PICCS** Complies Complies **AICS**

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
TOLUENE - 108-88-3	1.0

N-HEXANE - 110-54-3	1.0
CYCLOHEXANE - 110-82-7	1.0

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard Yes
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
TOLUENE 108-88-3	1000 lb	X	X	Х
CYCLOHEXANE 110-82-7	1000 lb	-	-	Х

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
ACETONE	5000 lb	-	RQ 5000 lb final RQ
67-64-1			RQ 2270 kg final RQ
TOLUENE	1 lb	-	RQ 1 lb final RQ
108-88-3			RQ 0.454 kg final RQ
N-HEXANE	5000 lb	-	RQ 5000 lb final RQ
110-54-3			RQ 2270 kg final RQ
CYCLOHEXANE	1000 lb	-	RQ 1000 lb final RQ
110-82-7			RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65	
TOLUENE - 108-88-3	Developmental	
	Female Reproductive	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
ACETONE 67-64-1	Х	Х	X
TOLUENE 108-88-3	X	X	Х
N-HEXANE 110-54-3	Х	X	Х
HEPTANE 142-82-5	Х	X	Х
CYCLOHEXANE 110-82-7	X	X	Х
CYCLOPENTANE 287-92-3	X	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

WHMIS Hazard Class

B2 - Flammable liquid, D2B - Toxic materials

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 2 Flammability 3 Instability 0

Health hazards 2 Flammability 3 Physical hazards 0 Personal protection B

NFPA (National Fire Protection Association) HMIS (Hazardous Material Information System)

Revision Date 03-Mar-2016

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet