



Material Safety Data Sheet  
**Material Name: Elmer's Contact Cement**  
**MSDS ID: ELM-002**  
 Issue Date 04/20/09  
 Revision 1.0000

**Other Sections:**

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**Section 1 - Chemical Product and Company Identification**

**Part Number(s):** E1014; 61014

**Chemical Name:** Elmer's Contact Cement

**Manufacturer Information**

Elmer's Products, Inc.  
 1 Easton Oval  
 Columbus, OH 43219  
 Emergency # Poison Control Center: 1-888-516-2502

**General Comments**

For additional product information, access our website at [www.elmers.com](http://www.elmers.com) or call 1-888-435-6377.  
 To place an order, call 1-800-848-9400.

**Product Use:**

Adhesive

**Section 2 - Hazards Identification**

**Emergency Overview**

This material is a clear colored liquid with a naphtha type odor. It is extremely flammable. It may be harmful if inhaled and harmful or fatal if swallowed. This material may cause respiratory tract irritation, skin irritation, eye irritation, and central nervous system depression.

**Potential Health Effects: Inhalation**

**Short Term Exposure:** harmful if inhaled, irritation, headache, nausea, dizziness, drowsiness, loss of coordination, kidney damage, liver damage

**Long Term Exposure:** no information on significant adverse effects

**Potential Health Effects: Skin**

**Short Term Exposure:** irritation

**Long Term Exposure:** irritation, dermatitis

**Potential Health Effects: Eyes**

**Short Term Exposure:** irritation

**Long Term Exposure:** irritation

**Potential Health Effects: Ingestion**

**Short Term Exposure:** harmful or fatal if swallowed, irritation, headache, drowsiness, dizziness, loss of coordination, kidney damage, liver damage

**Long Term Exposure:** no information on significant adverse effects.

**Section 3 - Composition / Information on Ingredients**

**General Product Information**

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

CAS #	Component	Percent
78-93-3	Methyl ethyl ketone	21.81
64742-89-8	Solvent naphtha (petroleum), light aliphatic	19.52

67-64-1	Acetone	19.11
141-78-6	Ethylacetate	17.75
1330-20-7	Xylenes (o-, m-, p- isomers)	3.82
7732-18-5	Water	0.24

### Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Ligroine (8032-32-4).

## Section 4 - First Aid Measures

### First Aid: Inhalation

If inhalation symptoms occur, move to fresh air. If symptoms persist, see a physician.

### First Aid: Skin

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

### First Aid: Eyes

If eye contact occurs, rinse with tap water for 5-10 minutes. If irritation persists, seek medical attention.

### First Aid: Ingestion

If swallowed, do not induce vomiting. Call a physician or poison control center immediately.

## Section 5 - Fire Fighting Measures

### General Fire Hazards

See Section 9 for Flammability Properties.

Severe fire hazard. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Vapor/air mixtures are explosive.

### Hazardous Combustion Products

Aldehydes, oxides of carbon

### Extinguishing Media

Carbon dioxide, regular dry chemical, regular foam, water spray

### Fire Fighting Equipment/Instructions

Wear protective clothing and equipment suitable for the surrounding fire, including helmet, face mask, and self-contained breathing apparatus. Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

### NFPA Ratings:

**Health: 2 Fire: 3 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## Section 6 - Accidental Release Measures

### Containment Procedures

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if possible without personal risk. Prevent entry into waterways, sewers, basements or confined areas.

### Clean-Up Procedures

Wear appropriate personal protective equipment (impervious gloves). Absorb spill or cover with dry earth, sand, or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material.

### Evacuation Procedures

Keep unnecessary people away, isolate hazard area and deny entry.

### Special Procedures

Regulations vary. All waste material should be packaged, labeled, transported, and disposed of in accordance with federal and local regulations. Consult local authorities before disposal.

## Section 7 - Handling and Storage

### Handling Procedures

Do not inhale vapors or mists. Avoid ingestion. Do not smoke when using. Keep away from eyes. Wash thoroughly after handling. Ground the container when pouring. To prevent static electricity buildup, avoid the use of plastic containers. Do not cut, puncture, or weld on or nearby empty container. The spray mist is flammable; keep away from all ignition sources. Use only with adequate ventilation. KEEP OUT OF REACH OF CHILDREN.

### Storage Procedures

Store in accordance with all current regulations and standards. Store in a cool, dry place. Avoid contact with heat, sparks, and open flame. Vapors can ignite explosively. If using indoors, turn off all pilot lights. Do not store or use near heat or flame. Keep separated from incompatible substances.

## Section 8 - Exposure Controls / Personal Protection

### A: Component Exposure Limits

#### Methyl ethyl ketone (78-93-3)

**ACGIH:** 200 ppm TWA

300 ppm STEL

**OSHA:** 200 ppm TWA; 590 mg/m<sup>3</sup> TWA

300 ppm STEL; 885 mg/m<sup>3</sup> STEL

**NIOSH:** 200 ppm TWA; 590 mg/m<sup>3</sup> TWA

300 ppm STEL; 885 mg/m<sup>3</sup> STEL **Solvent naphtha (petroleum), light aliphatic (64742-89-8)**

**OSHA:** 300 ppm TWA; 1350 mg/m<sup>3</sup> TWA (related to Ligroine)

400 ppm STEL; 1800 mg/m<sup>3</sup> STEL (related to Ligroine)

**NIOSH:** 350 mg/m<sup>3</sup> TWA (related to Ligroine)

1800 mg/m<sup>3</sup> Ceiling (15 min) (related to Ligroine) **Acetone (67-64-1)**

**ACGIH:** 500 ppm TWA

750 ppm STEL

**OSHA:** 750 ppm TWA; 1800 mg/m<sup>3</sup> TWA

1000 ppm STEL; 2400 mg/m<sup>3</sup> STEL (The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors)

**NIOSH:** 250 ppm TWA; 590 mg/m<sup>3</sup> TWA

#### Ethylacetate (141-78-6)

**ACGIH:** 400 ppm TWA

**OSHA:** 400 ppm TWA; 1400 mg/m<sup>3</sup> TWA

**NIOSH:** 400 ppm TWA; 1400 mg/m<sup>3</sup> TWA

#### Xylenes (o-, m-, p- isomers) (1330-20-7)

**ACGIH:** 100 ppm TWA

150 ppm STEL

**OSHA:** 100 ppm TWA; 435 mg/m<sup>3</sup> TWA

150 ppm STEL; 655 mg/m<sup>3</sup> STEL **B: Exposure Limits for Chemicals which may be generated during processing**

This material has no components listed.

### Engineering Controls

Provide local exhaust or process control ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear splash resistant safety goggles with a faceshield.

#### Personal Protective Equipment: Skin

Wear appropriate chemical resistant clothing and chemical resistant gloves (neoprene rubber).

#### Personal Protective Equipment: Respiratory

Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

Any air-purifying half-mask respirator equipped with organic vapor cartridge(s) in combination with an N95, R95, or P95 filter. The following filters may also be used: N99, R99, P99, N100, R100 or P100.

Any air-purifying full-facepiece respirator (gas mask) with a chin-style, front-mounted or back-mounted organic vapor canister having an N100, R100, or P100 filter.

Any powered, air-purifying respirator with a tight-fitting facepiece, organic vapor cartridge(s) and high-efficiency particulate filter(s).

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode.

**For Unknown Concentrations or Immediately Dangerous to Life or Health -**

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

#### **Personal Protective Equipment: General**

Use good hygiene practices when handling this material including changing and laundering work clothes after use. A safety shower should be available. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

### **Section 9 - Physical & Chemical Properties**

<b>Appearance:</b> Clear colored liquid	<b>Odor:</b> Naphtha type
<b>Physical State:</b> Liquid	<b>pH:</b> Not available
<b>Vapor Pressure:</b> 180 mmHg	<b>Vapor Density:</b> >1 (air=1)
<b>Boiling Point:</b> 131-281 F	<b>Solubility (H2O):</b> 26.8%
<b>Specific Gravity:</b> 0.859	<b>Weight per Gallon</b> 7.16 lbs.
<b>Freezing Point:</b> Not available	<b>Evaporation Rate:</b> Slower than n-butyl acetate
<b>VOC:</b> 5.79 lbs./gallon (minus exempt)	<b>Viscosity:</b> Not available
<b>Octanol/H2O Coeff.:</b> Not available	<b>Flash Point:</b> 1 F
<b>Flash Point Method:</b> TCC	<b>Upper Flamm. Limit (UFL):</b> 12.8%
<b>Lower Flamm. Limit (LFL):</b> 1.00%	<b>Auto Ignition:</b> Not available
<b>Decomposition Temp.:</b> Not available	<b>Odor Threshold:</b> Not available
<b>OSHA Flamm. Class:</b> IB	<b>Coeff of Water Oil Dist:</b> Not available

### **Section 10 - Chemical Stability & Reactivity Information**

#### **Chemical Stability**

Stable at normal temperatures and pressure.

#### **Chemical Stability: Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Avoid contact with incompatible materials.

#### **Incompatibility**

Acids, alcohol, alkaline materials, strong oxidizing agents

#### **Hazardous Decomposition**

Aldehydes, oxides of carbon

#### **Possibility of Hazardous Reactions**

Will not polymerize.

### **Section 11 - Toxicological Information**

#### **Acute Dose Effects**

This material may be harmful if inhaled and harmful or fatal if swallowed. This material may cause respiratory tract irritation, skin irritation, eye irritation, and central nervous system depression.

**A: Component Analysis - LD50/LC50**

**Methyl ethyl ketone (78-93-3)**

Inhalation LC50 Mouse: 32 g/m<sup>3</sup>/4H; Oral LD50 Rat: 2737 mg/kg; Dermal LD50 Rabbit: 6480 mg/kg

**Solvent naphtha (petroleum), light aliphatic (64742-89-8)**

Oral LD50 Mouse: 5000 mg/kg; Dermal LD50 Rabbit: 3000 mg/kg

**Acetone (67-64-1)**

Oral LD50 Rat: 5800 mg/kg

**Ethylacetate (141-78-6)**

Oral LD50 Rat: 5620 mg/kg; Dermal LD50 Rabbit: >20 mL/kg; Dermal LD50 Rabbit: >18000 mg/kg

**Xylenes (o-, m-, p- isomers) (1330-20-7)**

Inhalation LC50 Rat: 5000 ppm/4H; Inhalation LC50 Rat: 47635 mg/L/4H; Oral LD50 Rat: 4300 mg/kg; Dermal LD50 Rabbit: >1700 mg/kg

**Water (7732-18-5)**

Oral LD50 Rat: >90 mL/kg

**Irritation**

May cause respiratory tract irritation, skin irritation, and eye irritation.

**Carcinogenicity**

ACGIH, IARC, OSHA, NIOSH, and NTP carcinogen lists have been checked for selected similar materials or those components with CAS registry numbers. Only those components found on any of these lists will be shown below. A component not appearing was not found on any of the lists and is not considered to be a carcinogen by these sources.

**A: Component Carcinogenicity**

**Acetone (67-64-1)**

**ACGIH:** A4 - Not Classifiable as a Human Carcinogen

**Xylenes (o-, m-, p- isomers) (1330-20-7)**

**ACGIH:** A4 - Not Classifiable as a Human Carcinogen

**IARC:** Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

**Mutagenicity**

No information available for the mixture.

**Teratogenicity**

No information available for the mixture.

**Developmental Effects**

No information available for the mixture.

**Sensitization**

No information available for the mixture.

**Target Organ Effects**

Respiratory system, skin, eyes, central nervous system

**Medical Conditions Aggravated by Exposure**

Respiratory system, skin, nervous system disorders

**Section 12 - Ecological Information**

**Ecotoxicity**

No additional information available.

**A: Component Analysis - Ecotoxicity - Aquatic Toxicity**

**Methyl ethyl ketone (78-93-3)**

Test & Species	Conditions
96 Hr LC50 Pimephales promelas	3130-3320 mg/L [flow-through]
48 Hr EC50 water flea	520 mg/L
48 Hr EC50 Daphnia magna	5091 mg/L

**Solvent naphtha (petroleum), light aliphatic (64742-89-8)**

**Test & Species**

72 Hr EC50 Selenastrum  
capricornutum 4700 mg/L

**Conditions****Acetone (67-64-1)****Test & Species**

96 Hr LC50 Oncorhynchus mykiss 4.74-6.33 ml/L  
96 Hr LC50 Pimephales promelas 6210-8120 mg/L  
[static]  
96 Hr LC50 Lepomis macrochirus 8300 mg/L

**Conditions****Ethylacetate (141-78-6)****Test & Species**

96 Hr LC50 Pimephales promelas 220-250 mg/L  
[flow-through]  
96 Hr LC50 Oncorhynchus mykiss 484 mg/L [flow-  
through]  
96 Hr LC50 Oncorhynchus mykiss 352-500 mg/L  
[semi-static]  
48 Hr EC50 Scenedesmus  
subspicatus 3300 mg/L

**Conditions****Xylenes (o-, m-, p- isomers) (1330-20-7)****Test & Species**

96 Hr LC50 Pimephales promelas 13.4 mg/L [flow-  
through]  
96 Hr LC50 Oncorhynchus mykiss 2.661-4.093 mg/L  
[static]  
96 Hr LC50 Oncorhynchus mykiss 13.5-17.3 mg/L  
96 Hr LC50 Lepomis macrochirus 13.1-16.5 mg/L  
[flow-through]  
96 Hr LC50 Lepomis macrochirus 19 mg/L  
96 Hr LC50 Lepomis macrochirus 7.711-9.591 mg/L  
[static]  
96 Hr LC50 Pimephales promelas 23.53-29.97 mg/L  
[static]  
96 Hr LC50 Cyprinus carpio 780 mg/L [semi-  
static]  
96 Hr LC50 Cyprinus carpio >780 mg/L  
96 Hr LC50 Poecilia reticulata 30.26-40.75 mg/L  
[static]  
48 Hr EC50 water flea 3.82 mg/L  
48 Hr LC50 Gammarus lacustris 0.6 mg/L

**Conditions****Section 13 - Disposal Considerations****US EPA Waste Number & Descriptions**

None known.

**A: Component Waste Numbers****Methyl ethyl ketone (78-93-3)****RCRA:** waste number U159 (Ignitable waste, Toxic waste)200.0 mg/L regulatory level **Acetone (67-64-1)****RCRA:** waste number U002 (Ignitable waste)**Ethylacetate (141-78-6)****RCRA:** waste number U112 (Ignitable waste)**Xylenes (o-, m-, p- isomers) (1330-20-7)****RCRA:** waste number U239 (Ignitable waste, Toxic waste)**Disposal Instructions**

Subject to disposal regulations: D001. Dispose in accordance with all applicable regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

**Section 14 - Transportation Information****US DOT Information****Shipping Name:** No classification assigned.**Additional Info.:** Material complies with the requirements of 49CFR173.4 (Small quantity exceptions).**TDG Information****Shipping Name:** No classification assigned.**Additional Info.:** Material complies with the requirements of 49CFR173.4 (Small quantity exceptions).**Section 15 - Regulatory Information****US Federal Regulations**

No additional information.

**A: Component Analysis**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

**Methyl ethyl ketone (78-93-3)****CERCLA:** 5000 lb final RQ; 2270 kg final RQ**Acetone (67-64-1)****CERCLA:** 5000 lb final RQ; 2270 kg final RQ**Ethylacetate (141-78-6)****CERCLA:** 5000 lb final RQ; 2270 kg final RQ**Xylenes (o-, m-, p- isomers) (1330-20-7)****SARA** 1.0 % de minimis concentration**313:****CERCLA:** 100 lb final RQ; 45.4 kg final RQ**B: TSCA 12(b) Export Notification**

Not listed.

**SARA 311/312 Hazardous Categories****Acute Health:** Yes **Chronic Health:** No **Fire:** Yes **Pressure:** No **Reactive:** No**State Regulations**

Other state regulations may apply. Check individual state requirements.

Component	CAS	CA	MA	MN	NJ	PA	RI
Methyl ethyl ketone	78-93-3	Yes	Yes	Yes	Yes	Yes	Yes
Solvent naphtha (petroleum), light aliphatic (related to Ligroine)	64742-89-8	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	No
Acetone	67-64-1	Yes	Yes	Yes	Yes	Yes	Yes
Ethylacetate	141-78-6	Yes	Yes	Yes	Yes	Yes	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes	Yes

### Canadian WHMIS Information

#### A: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Methyl ethyl ketone	78-93-3	1 %
Solvent naphtha (petroleum), light aliphatic	64742-89-8	1 % (related to Ligroine)
Acetone	67-64-1	1 %
Ethylacetate	141-78-6	1 %

### WHMIS Classification

No classification determined.

#### Additional Regulatory Information

All the components of this substance are listed on or are exempt from the inventory.

#### A: Component Analysis - Inventory

Component	CAS #	TSCA
Methyl ethyl ketone	78-93-3	Yes
Solvent naphtha (petroleum), light aliphatic	64742-89-8	Yes
Acetone	67-64-1	Yes
Ethylacetate	141-78-6	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes
Water	7732-18-5	Yes

### Section 16 - Other Information

#### Other Information

No additional information.

#### MSDS History

New MSDS: 4/17/09

#### Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit;

TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act;  
TWA = Time Weighted Average

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