Safety Data Sheet:
Material Name: Elmer's Model & Hobby Cement
SDS ID: SDS-36
Issue Date: 2014-12-04
Revision: .

Other Sections
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
Elmer's Model & Hobby Cement

Synonyms
E1013; 61013

Chemical Family
Adhesive.

Product Use
Adhesive.

Restrictions on Use
None known.

Manufacturer Information

Elmer's Products, Inc
460 Polaris Parkway, Suite 500
Westerville, OH 43082
USA
Phone:1-888-435-6377
Fax:1-800-741-6046
Email:comments@elmers.com

Emergency Phone Number:
Poison Control Center
1-888-516-2502

For additional product information, access our website at www.elmers.com. To place an order, call 1-800-848-9400.

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Flammable Liquids - Category 1
Acute Toxicity - Inhalation - Dust/Mist - Category 4
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Specific Target Organ Toxicity - Single Exposure - Category 1 (central nervous system)
Specific Target Organ Toxicity - Single Exposure - Category 2 (kidneys)
Specific Target Organ Toxicity - Single Exposure - Category 3 (respiratory system)
Specific Target Organ Toxicity - Repeated Exposure - Category 1 (central nervous system,Peripheral Nervous System)
Specific Target Organ Toxicity - Repeated Exposure - Category 2 (nervous system,liver,digestive system,skin)

GHS Label Elements

Symbol(s)

Signal Word

Danger

Hazard Statement(s)

Extremely flammable liquid and vapor
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
Causes damage to organs
May cause damage to organs
May cause respiratory irritation. May cause drowsiness or dizziness
Causes damage to organs through prolonged or repeated exposure
May cause damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

Prevention

Keep container tightly closed
Keep away from heat/sparks/open flame/hot surfaces - No smoking
Ground/Bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Take precautionary measures against static discharge

Use only non-sparking tools
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapours/spray
Wash thoroughly after handling
Do not eat, drink or smoke when using this product

Response
In case of fire: Use appropriate media to extinguish
If exposed: Call a POISON CENTER or doctor/physician
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor if you feel unwell
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
Wash contaminated clothing before reuse

Storage
Store in a well-ventilated place. Keep container tightly closed
Keep cool
Store locked up

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations

---

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
78-93-3	Methyl ethyl ketone	54.43
9003-53-6	Polystyrene	29.86

Section 4 - FIRST AID MEASURES

Description of Necessary Measures
IF exposed or concerned: Get medical advice/attention.

Inhalation
Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin
Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing before reuse.

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.

Ingestion
If swallowed, get medical attention.

Most Important Symptoms/Effects

Acute
May cause respiratory irritation, eye irritation, skin irritation. central nervous system damage, kidney damage.

Delayed
central nervous system effects, Peripheral Nervous System effect, nervous system liver effects, digestive system

---

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media
Use dry chemical, carbon dioxide, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media
high-pressure water streams.

Special Hazards Arising from the Chemical
Highly flammable liquid and vapor. 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
Oxides of carbon.

Special Protective Equipment and Precautions for Firefighters
Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up
Eliminate all ignition sources if safe to do so. Ground any equipment used in handling. Do not touch or walk through spilled material. Stop leak if possible without personal risk. Absorb with earth, sand or other non-combustible material and transfer to container. Use non-sparking tools and equipment.

Environmental Precautions
Prevent entry into waterways, sewers, basements, or confined areas.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Avoid contact with skin and eyes. Do not breathe dusts or mists. Ground any equipment used in handling. Ground/bond container and receiving equipment. Avoid use of plastic containers. Use only with adequate ventilation. Keep out of reach of children. Keep away from heat/sparks/open flame/hot surfaces - No smoking. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. The spray mist is flammable; keep away from all ignition sources. Do not cut, puncture, or weld on or near this container.

Conditions for Safe Storage, Including any Incompatibilities
Store in a well-ventilated place. Keep container tightly closed
Keep cool
Store locked up
Store in accordance with all current regulations and standards. Avoid heat, flames, sparks and other sources of ignition. Keep away from incompatible materials. If using indoors, turn off all pilot lights.

Incompatible Materials
Acids, halocarbons, strong oxidizing agents, combustible materials, peroxides, bases.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Methyl ethyl ketone	78-93-3
ACGIH:	200 ppm TWA
	300 ppm STEL
NIOSH:	200 ppmTWA; 590 mg/m3TWA
	300 ppmSTEL; 885 mg/m3STEL
	3000 ppmIDLH
Europe:	200 ppm TWA; 600 mg/m3 TWA
	300 ppm STEL; 900 mg/m3 STEL
OSHA (US):	200 ppmTWA; 590 mg/m3TWA
Mexico:	200 ppmTWA LMPE-PPT; 590 mg/m3TWA LMPE-PPT
	300 ppmSTEL [LMPE-CT]; 885 mg/m3STEL [LMPE-CT]

Biological limit value

There are no biological limit values for any of this product's components.

Engineering Controls

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

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate chemical resistant clothing.

Respiratory Protection

A NIOSH approved respirator with a dust, mist, and fume filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits or when symptoms have been observed that are indicative of overexposure.

Glove Recommendations

Wear appropriate chemical resistant gloves.

Protective Materials

rubber neoprene

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	clearcolorlessliquid	Physical State	liquid
Odor	Ketone	Color	Not available
Odor Threshold	Not available	**pH**	Not available
Melting Point	Not available	**Boiling Point**	Not available
Freezing point	Not available	**Evaporation Rate**	Slower than n-butyl acetate
Boiling Point Range	174-189 °F	**Flammability (solid, gas)**	Not available
Autoignition	Not available	**Flash Point**	21 °F (TCC)
Lower Explosive Limit	1.7 %	**Decomposition**	Not available
Upper Explosive Limit	10 %	**Vapor Pressure**	77 mmHg
Vapor Density (air=1)	>1	**Specific Gravity (water=1)**	0.877
Water Solubility	18.9 %	**Partition coefficient: n-octanol/water**	Not available
Viscosity	Not available	**Solubility (Other)**	Not available
Density	0.877 g/cm3	**VOC**	5.12 lb/gl

Section 10 - STABILITY AND REACTIVITY

Reactivity
No reactivity hazard is expected.

Chemical Stability
Stable under normal conditions of use.

Possibility of Hazardous Reactions
Hazardous polymerization will not occur.

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.

Incompatible Materials
Acids, halocarbons, strong oxidizing agents, combustible materials, peroxides, bases.

Hazardous decomposition products
oxides of carbon.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation
Harmful if inhaled. May cause respiratory irritation. May cause central nervous system depression.

Skin Contact
Causes skin irritation.

Eye Contact
Causes serious eye irritation.

Ingestion
No information available for the product.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:
Methyl ethyl ketone (78-93-3)
Oral LD50Rat 2483 mg/kg
Dermal LD50Rabbit 5000 mg/kg
Inhalation LC50Rat 11700 ppm 4 h

Immediate Effects
Harmful if inhaled, Irritation to respiratory tract. skin irritation, eye irritation, central nervous system depression, central nervous system damage. kidney damage.

Delayed Effects
central nervous system damage. Peripheral Nervous System effect, nervous system damage. digestive system, liver damage, skin damage.

Irritation/Corrosivity Data
Causes serious eye irritation, skin irritation. May cause respiratory irritation.

Respiratory Sensitization

No information available for the product.

Dermal Sensitization
No information available for the product.

Component Carcinogenicity

Polystyrene	9003-53-6
IARC:	Supplement 7 [1987]; Monograph 19 [1979](Group 3 (not classifiable))

Germ Cell Mutagenicity
No information available for the product.

Reproductive Toxicity
No information available for the product.

Specific Target Organ Toxicity - Single Exposure
Respiratory system, central nervous system, kidneys,

Specific Target Organ Toxicity - Repeated Exposure
central nervous system, Peripheral Nervous System, liver, digestive system, skin.

Aspiration hazard
No information available for the product.

Medical Conditions Aggravated by Exposure
nervous system disorders, respiratory disorders, skin disorders and allergies.

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

Methyl ethyl ketone	78-93-3
Fish:	LC50 96 h Pimephales promelas 3130 - 3320 mg/L [flow-through]
Invertebrate:	EC50 48 h Daphnia magna >520 mg/L IUCLID; EC50 48 h Daphnia magna 5091 mg/L IUCLID; EC50 48 h Daphnia magna 4025 - 6440 mg/L [static] EPA

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose in accordance with all applicable regulations.

Section 14 - TRANSPORT INFORMATION

US DOT Information:
Shipping Name:ETHYL METHYL KETONE
Hazard Class: 3
UN/NA #: UN1193
Packing Group: II
Required Label(s): 3

TDG Information:
Shipping Name:ETHYL METHYL KETONE
Hazard Class: 3
UN#: UN1193
Packing Group: II
Required Label(s):

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

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), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Methyl ethyl ketone	78-93-3
CERCLA:	5000 lbfinal RQ; 2270 kgfinal RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C)
Acute Health: Yes **Chronic Health:** Yes **Fire:** Yes **Pressure:** No **Reactivity:** No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Methyl ethyl ketone	78-93-3	Yes	Yes	Yes	Yes	Yes

Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Methyl ethyl ketone	78-93-3
	1 %

Component Analysis - Inventory

Methyl ethyl ketone (78-93-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Polystyrene (9003-53-6)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Section 16 - OTHER INFORMATION

HMIS Rating

Health: 2 Fire: 3 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings

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

Summary of Changes

New SDS: 11/19/2014

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation

and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information

Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse.

Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.