

2-27-2023: File reviewed, more current MSDS/SDS not available. JMC



Safety Data Sheet:
**Material Name: Elmer's Glue-
All MAX**
SDS ID: SDS-33
Issue Date: 2015-01-15
Revision: 1.0

Other Sections

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Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

Elmer's Glue-All MAX

Synonyms

E9406, E9415, E9416; E9411; E9428; P9418; E39418; E69406.

Chemical Family

Adhesive

Product Use

Adhesive

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.

Acute Toxicity - Inhalation - Dust/Mist - Category 4
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Respiratory Sensitization - Category 1A
Skin Sensitization - Category 1A
Specific Target Organ Toxicity - Single Exposure - Category 3
Specific Target Organ Toxicity - Repeated Exposure - Category 1 (respiratory system)
Specific Target Organ Toxicity - Repeated Exposure - Category 2 (Organs affected)

GHS Label Elements

Symbol(s)



Signal Word

Danger

Hazard Statement(s)

Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause allergic or asthmatic symptoms or breathing difficulties if inhaled
May cause allergic skin reaction
May cause respiratory irritation
Causes damage to organs through prolonged or repeated exposure
May cause damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

Prevention

Avoid breathing dust/fume/gas/mist/vapours/spray
Wash thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves/protective clothing/eye protection/face protection
Wear respiratory protection

Response

IF ON SKIN: Wash with plenty of soap and water
IF INHALED: Remove person to fresh air and keep comfortable for breathing

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Call a POISON CENTER or doctor if you feel unwell

Get medical advice/attention if you feel unwell

Specific treatment (see label)

If skin irritation or rash occurs: Get medical advice/attention

If eye irritation persists: Get medical advice/attention

If experiencing respiratory symptoms: Call a POISON CENTER/doctor

Take off contaminated clothing and wash before reuse

Storage

Store in a well-ventilated place. Keep container tightly closed

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
9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester	30-50
101-68-8	4,4'-Methylenediphenyl diisocyanate	30-50
108-90-7	Chlorobenzene	<0.01

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

Get medical advice/attention if you feel unwell.

Inhalation

Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms:

Call a POISON CENTER/doctor.

Skin

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing. 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

Rinse mouth thoroughly with water.

Most Important Symptoms/Effects

Acute

May cause respiratory irritation, skin irritation, eye irritation. Harmful if inhaled. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction.

Delayed

respiratory system damage. May cause damage to organs through prolonged or repeated exposure.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Dry chemical, foam or carbon dioxide.

Unsuitable Extinguishing Media

Do not use water.

Special Hazards Arising from the Chemical

Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products

cyanides, oxides of carbon, oxides of nitrogen.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Avoid contact with skin and eyes. Ventilate affected area. Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Ventilate the area. Eliminate all ignition sources if safe to do so. Large spills: Dike for later disposal. Prevent entry into waterways, sewers, basements, or confined areas. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

Environmental Precautions

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

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Use only with adequate ventilation. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid prolonged exposure. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Avoid contact with water or moisture. Store between 16 C and 35 C. A hazardous build-up of pressure could result due to a reaction with water producing carbon dioxide gas if contaminated containers are resealed. Do not reseal contaminated containers. Reseal uncontaminated containers that are free of moisture only after placing under a nitrogen blanket. Do not store in containers made of copper, copper alloys, or galvanized surfaces. See original container for storage recommendations. Keep separated from incompatible substances.

Incompatible Materials

Amines, alcohol, bases, acids, oxidizing materials, metals, metal salts.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

4,4'-Methylenediphenyl diisocyanate	101-68-8
ACGIH:	0.005 ppm TWA
NIOSH:	0.005 ppmTWA; 0.05 mg/m ³ TWA
	0.02 ppm Ceiling 10 min; 0.2 mg/m ³ Ceiling 10 min
	75 mg/m ³ IDLH
OSHA (US):	0.02 ppmCeiling; 0.2 mg/m ³ Ceiling

Mexico:	0.02 ppmTWA LMPE-PPT; 0.2 mg/m ³ TWA LMPE-PPT; 0.005 ppmTWA LMPE-PPT as Methylene bisphenyl isocyanate; 0.051 mg/m ³ TWA LMPE-PPT as Methylene bisphenyl isocyanate (related to Benzene, 1,1'-methylenebis[isocyanato-)
Chlorobenzene	108-90-7
ACGIH:	10 ppm TWA
NIOSH:	1000 ppmIDLH
Europe:	47 mg/m ³ TWA; 10 ppm TWA
	5 ppmTWA; 23 mg/m ³ TWA
	94 mg/m ³ STEL; 20 ppm STEL
	15 ppm STEL; 70 mg/m ³ STEL
OSHA (US):	75 ppmTWA; 350 mg/m ³ TWA
Mexico:	75 ppmTWA LMPE-PPT; 350 mg/m ³ TWA LMPE-PPT

Biological limit value

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

Engineering Controls

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.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brownliquid	Physical State	Not available
Odor	musty odor	Color	brown
Odor Threshold	Not available	pH	Not available
Melting Point	Not available	Boiling Point	>300 °C (decomposes)
Freezing point	Not available	Evaporation Rate	Not available
Boiling Point Range	Not available	Flammability (solid, gas)	Not available
Autoignition	Not available	Flash Point	>110 °C (230 °F)
Lower Explosive Limit	Not available	Decomposition	Not available
Upper Explosive Limit	Not available	Vapor Pressure	4E-06 mmHg
Vapor Density (air=1)	8.5	Specific Gravity (water=1)	1.12 [@ 20 °C]
Water Solubility	Not available	Partition coefficient: n-octanol/water	Not available
Viscosity	2311 cP	Solubility (Other)	reacts, immiscible
Density	Not available	VOC	12 g/L

Section 10 - STABILITY AND REACTIVITY

Reactivity

May react on contact with water.

Chemical Stability

May react on contact with water.

Possibility of Hazardous Reactions

Polymerization may occur in the presence of metal compounds, alkalies, and tertiary amines at elevated temperatures.

Conditions to Avoid

Avoid flames, sparks, and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials

Amines, alcohols, bases, acids, metal salts, metals, oxidizing materials.

Hazardous decomposition products

Water or Moisture: oxides of carbon.

Thermal decomposition products

carbon monoxide, organic compounds, hydrogen cyanide,

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure**Inhalation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Harmful if inhaled.

Skin Contact

Causes skin irritation. May cause allergic skin reaction.

Eye Contact

Causes serious eye irritation.

Ingestion

May cause gastrointestinal irritation and nausea.

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:

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)

Inhalation LC50Rat 490 mg/m³ 4 h

4,4'-Methylenediphenyl diisocyanate (101-68-8)

Oral LD50Rat 31600 mg/kg

Dermal LD50Rabbit > 6200 mg/kg (related to Benzene, 1,1'-methylenebis[isocyanato-])

Inhalation LC50Rat 369 mg/m³ 4 h

Chlorobenzene (108-90-7)

Oral LD50Rat 2914 mg/kg

Inhalation LC50Rat 13.5 mg/L 7 h

Immediate Effects

May cause respiratory irritation, skin irritation, eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Harmful if inhaled.

Delayed Effects

May cause respiratory system damage. May cause damage to organs through prolonged or repeated exposure.

Irritation/Corrosivity Data

skin irritation, eye irritation, respiratory tract irritation

Respiratory Sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Dermal Sensitization

May cause allergic skin reaction.

Component Carcinogenicity

Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9
IARC:	Supplement 7 [1987]; Monograph 19 [1979](Group 3 (not classifiable))
DFG:	Category 4 (no significant contribution to human cancer)
4,4'-Methylenediphenyl diisocyanate	101-68-8
IARC:	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 19 [1979](Group 3 (not classifiable))
DFG:	Category 4 (no significant contribution to human cancer)
Chlorobenzene	108-90-7
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

Germ Cell Mutagenicity

No information available for the product.

Reproductive Toxicity

No information available for the product.

Specific Target Organ Toxicity - Single Exposure

respiratory tract

Specific Target Organ Toxicity - Repeated Exposure

respiratory system

Aspiration hazard

No information available for the product.

Medical Conditions Aggravated by Exposure

No data available.

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

Chlorobenzene	108-90-7
Fish:	LC50 96 h Pimephales promelas 7 - 8.5 mg/L [flow-through]; LC50 96 h Pimephales promelas 4.5 mg/L [static]; LC50 96 h Lepomis macrochirus 6.9 - 7.9 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 4.1 - 4.9 mg/L [static]; LC50 96 h Oncorhynchus mykiss 4.1 - 5.3 mg/L [flow-through]; LC50 96 h Brachydanio rerio 91 mg/L [static]; LC50 96 h Poecilia reticulata 36.35 - 58.19 mg/L [static]
Algae:	EC50 96 h Pseudokirchneriella subcapitata 2.55 - 420 mg/L EPA; EC50 96 h Pseudokirchneriella subcapitata 12.5 mg/L [static] EPA
Invertebrate:	EC50 48 h Daphnia magna 0.59 mg/L IUCLID

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with all applicable regulations.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

UN/NA #: Not Regulated

TDG Information:

UN#: Not Regulated

IATA Information:

UN#: Not Regulated

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes
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4,4'-Methylenediphenyl diisocyanate (101-68-8)

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

Chlorobenzene (108-90-7)

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

Section 16 - OTHER INFORMATION

HMIS Rating

Health: 2 Fire: 1 Reactivity: 1

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

Summary of Changes

Update: 1/7/2015

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

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