

Safety Data Sheet: Material Name: Elmer's Multi-Purpose Spray Adhesive SDS ID: SDS-23 Issue Date: 2014-11-24 Revision: 1.2

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 Multi-Purpose Spray Adhesive

Synonyms E451, E452, 60451

Chemical Family

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.

Flammable Aerosols - Category 1 Aspiration Hazard - Category 1 Skin Corrosion/Irritation - Category 2 Serious Eye Damage/Eye Irritation - Category 2A Specific Target Organ Toxicity - Single Exposure - Category 3 Hazardous to the Aquatic Environment - Acute - Category 2 Hazardous to the Aquatic Environment - Chronic - Category 2

GHS Label Elements

Symbol(s)



Signal Word

Danger

Hazard Statement(s)

Extremely flammable aerosol May be fatal if swallowed and enters airways Causes skin irritation Causes serious eye irritation May cause respiratory irritation. May cause drowsiness or dizziness Toxic to aquatic life with long lasting effects

Precautionary Statement(s)

Prevention

Keep away from heat/sparks/open flame/hot surfaces - No smoking Pressurized container: Do not pierce or burn, even after use Do not spray on an open flame or other ignition sources Use only outdoors or in a well-ventilated area Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapours/spray Wash thoroughly after handling Avoid release to the environment

Response

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing 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: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF SWALLOWED: Immediately call a POISON CENTER/doctor Do NOT induce vomiting Call a POISON CENTER or doctor if you feel unwell Specific treatment (see label)

Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Disposal

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

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent		
107-83-5	2-Methylpentane	10-20		
67-64-1	Acetone	10-20		
75-83-2	2,2-Dimethylbutane	2.5-10		
74-98-6	Propane	10-20		
115-10-6	Dimethyl ether	2.5-10		
79-29-8	2,3-Dimethylbutane	2.5-10		
96-14-0	3-Methylpentane	2.5-10		
106-97-8	Butane	2.5-10		

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

Call a POISON CENTER or doctor if you feel unwell.

Inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin

Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Remove contaminated clothing and wash it before reuse.

Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

Ingestion

Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Aspiration into the lungs may result in pulmonary edema and pneumonitis.

Most Important Symptoms/Effects

Acute

May cause respiratory irritation, eye irritation, skin irritation.

Delayed

no information on significant adverse effects.

Note to Physicians

Mineral oil, vegetable oil, or petroleum jelly may help soften the bonding between skin surfaces.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

regular dry powder, alcohol resistant foam, water, carbon dioxide.

Unsuitable Extinguishing Media

None known.

Special Hazards Arising from the Chemical

Contains gas under pressure, may explode when heated.

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. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn. In case of fire and/or explosion do not breathe fumes. 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

Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Wear personal protective clothing and equipment, see Section 8. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and Materials for Containment and Cleaning Up

Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering. Stay upwind and keep out of low areas. Eliminate all sources of ignition. Stop leak if possible without personal risk. Move containers away from spill to a safe area. Isolate area until gas has dispersed. Collect spillage. Prevent entry into waterways, sewers, basements, or confined areas.

Environmental Precautions

Avoid release to the environment. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Pressurized container: Do not pierce or burn, even after use. Do not spray on naked flames or any incandescent material. Do not eat, drink or smoke when using this product. Do not puncture container. Ground any equipment used in handling. Keep away from heat, sparks and flame. Do not cut, puncture, or weld on or near this container. Do not reuse containers. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Avoid repeated or prolonged contact. Use only in well-ventilated areas. Wash hands thoroughly after handling. Do not empty into drains.

Conditions for Safe Storage, Including any Incompatibilities

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

Store locked up

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Keep away from incompatible materials. Keep away from heat, sparks and flame. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. This material can accumulate static charge by flow or agitation and can be ignited by static discharge. Keep out of reach of children.

Incompatible Materials

oxidizing agents

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

2-Methylpentane	107-83-5
ACGIH:	500 ppm TWA (related to Isohexane)

Component Exposure Limits

	1000 ppm STEL (related to Isohexane)
NIOSH:	100 ppmTWA; 350 mg/m3TWA (related to Isohexane)
	510 ppm Ceiling 15 min; 1800 mg/m3 Ceiling 15 min (related to Isohexane)
Mexico:	500 ppmTWA LMPE-PPT (except n-Hexane); 1760 mg/m3TWA LMPE-PPT (except n-Hexane) (related to Hexane, branched and linear)
	1000 ppmSTEL [LMPE-CT] (except n-Hexane); 3500 mg/m3STEL [LMPE-CT] (except n-Hexane) (related to Hexane, branched and linear)
Acetone	67-64-1
ACGIH:	500 ppm TWA
	750 ppm STEL
NIOSH:	250 ppmTWA; 590 mg/m3TWA
	2500 ppmIDLH (10% LEL)
Europe:	500 ppm TWA; 1210 mg/m3 TWA
OSHA (US):	1000 ppmTWA; 2400 mg/m3TWA
Mexico:	1000 ppmTWA LMPE-PPT; 2400 mg/m3TWA LMPE-PPT
	1260 ppmSTEL [LMPE-CT]; 3000 mg/m3STEL [LMPE-CT]
2,2-Dimethylbutane	75-83-2
ACGIH:	500 ppm TWA (related to Isohexane)
	1000 ppm STEL (related to Isohexane)
NIOSH:	100 ppmTWA; 350 mg/m3TWA (related to Isohexane)
	510 ppm Ceiling 15 min; 1800 mg/m3 Ceiling 15 min (related to Isohexane)
Mexico:	500 ppmTWA LMPE-PPT (except n-Hexane); 1760 mg/m3TWA LMPE-PPT (except n-Hexane) (related to Hexane, branched and linear)
	1000 ppmSTEL [LMPE-CT] (except n-Hexane); 3500 mg/m3STEL [LMPE-CT] (except n-Hexane) (related to Hexane, branched and linear)
Propane	74-98-6
ACGIH:	1000 ppm TWA
NIOSH:	1000 ppmTWA; 1800 mg/m3TWA
	2100 ppmIDLH (10% LEL)
OSHA (US):	1000 ppmTWA; 1800 mg/m3TWA
Dimethyl ether	115-10-6
Europe:	1000 ppm TWA; 1920 mg/m3 TWA

2,3-Dimethylbutane	79-29-8
ACGIH:	500 ppm TWA (related to Isohexane)
	1000 ppm STEL (related to Isohexane)
NIOSH:	100 ppmTWA; 350 mg/m3TWA (related to Isohexane)
	510 ppm Ceiling 15 min; 1800 mg/m3 Ceiling 15 min (related to Isohexane)
Mexico:	500 ppmTWA LMPE-PPT (except n-Hexane); 1760 mg/m3TWA LMPE-PPT (except n-Hexane) (related to Hexane, branched and linear)
	1000 ppmSTEL [LMPE-CT] (except n-Hexane); 3500 mg/m3STEL [LMPE-CT] (except n-Hexane) (related to Hexane, branched and linear)
3-Methylpentane	96-14-0
ACGIH:	500 ppm TWA (related to Isohexane)
	1000 ppm STEL (related to Isohexane)
NIOSH:	100 ppmTWA; 350 mg/m3TWA (related to Isohexane)
	510 ppm Ceiling 15 min; 1800 mg/m3 Ceiling 15 min (related to Isohexane)
Mexico:	500 ppmTWA LMPE-PPT (except n-Hexane); 1760 mg/m3TWA LMPE-PPT (except n-Hexane) (related to Hexane, branched and linear)
	1000 ppmSTEL [LMPE-CT] (except n-Hexane); 3500 mg/m3STEL [LMPE-CT] (except n-Hexane) (related to Hexane, branched and linear)
Butane	106-97-8
ACGIH:	1000 ppm STEL
NIOSH:	800 ppmTWA; 1900 mg/m3TWA
Mexico:	800 ppmTWA LMPE-PPT; 1900 mg/m3TWA LMPE-PPT

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Biological limit value

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

Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection Wear safety glasses with side shields. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate chemical resistant clothing.

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Respiratory Protection

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Glove Recommendations

Wear protective gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Not available	Physical State	gas
Odor	Not available	Color	Not available
Odor Threshold	Not available	рН	Not available
Melting Point	Not available	Boiling Point	Not available
Freezing point	Not available	Evaporation Rate	Not available
Boiling Point Range	Not available	Flammability (solid, gas)	Not available
Autoignition	Not available	Flash Point	74.18 °F (23.44 °C estimated)
Lower Explosive Limit	Not available	Decomposition	Not available
Upper Explosive Limit	Not available	Vapor Pressure	373.4 psig @70 °F (estimated)
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	0.645 (estimated)
Water Solubility	Not available	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Solubility (Other)	Not available
Density	Not available		

Section 10 - STABILITY AND REACTIVITY

Reactivity

Under normal conditions, no 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. Avoid friction and static electricity.

Incompatible Materials oxidizing agents,

Hazardous decomposition products

oxides of carbon, hydrocarbons,

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

May be fatal if swallowed and enters airways. Prolonged exposure can cause nausea, dizziness, headache, and narcotic effects. May cause respiratory irritation. May cause drowsiness or dizziness.

Skin Contact

Causes skin irritation.

Eye Contact

Causes serious eye irritation.

Ingestion

May be fatal if swallowed and enters airways.

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:

2-Methylpentane (107-83-5) Oral LD50Rat 15000 mg/kg (related to Hexane, branched and linear) Acetone (67-64-1) Inhalation LC50Rat 50100 mg/m3 8 h 2,2-Dimethylbutane (75-83-2) Oral LD50Rat 15000 mg/kg (related to Hexane, branched and linear) Propane (74-98-6) Inhalation LC50Rat 658 mg/L 4 h Dimethyl ether (115-10-6) Inhalation LC50Rat 308.5 mg/L 4 h 2,3-Dimethylbutane (79-29-8) Oral LD50Rat 15000 mg/kg (related to Hexane, branched and linear) 3-Methylpentane (96-14-0) Oral LD50Rat 15000 mg/kg (related to Hexane, branched and linear) Butane (106-97-8) Inhalation LC50Rat 658 g/m3 4 h

Immediate Effects

Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.

Delayed Effects

No target organs identified.

Irritation/Corrosivity Data

May cause respiratory irritation, eye irritation, skin irritation.

Respiratory Sensitization

No information available for the product.

Dermal Sensitization

no effects expected.

Component Carcinogenicity

Acetone	67-64-1
ACGIH:	A4 - Not Classifiable as a Human Carcinogen

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.

Specific Target Organ Toxicity - Repeated Exposure

Aspiration hazard

Aspiration Hazard. May be fatal if swallowed and enters airways.

Medical Conditions Aggravated by Exposure

No data available.

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

Acetone	67-64-1
	LC50 96 h Oncorhynchus mykiss 4.74 - 6.33 mL/L; LC50 96 h Pimephales promelas 6210 - 8120 mg/L [static]; LC50 96 h Lepomis macrochirus 8300 mg/L
Invertebrate:	EC50 48 h Daphnia magna 10294 - 17704 mg/L [static] EPA; EC50 48 h Daphnia magna 12600 - 12700 mg/L IUCLID

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with all applicable regulations. Do not puncture container.

Section 14 - TRANSPORT INFORMATION

US DOT Information: Shipping Name:AEROSOLS Hazard Class: 2.1 UN/NA #: UN1950 Packing Group: Required Label(s): 2.1

TDG Information: Shipping Name:AEROSOLS Hazard Class: 2.1 UN#: UN1950

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.

Acetone	67-64-1
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: Yes 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
2-Methylpentane	107-83-5	Yes	Yes	Yes	Yes	Yes
Acetone	67-64-1	Yes	Yes	Yes	Yes	Yes
2,2-Dimethylbutane	75-83-2	Yes	Yes	Yes	Yes	Yes
Propane	74-98-6	No	Yes	Yes	Yes	Yes
Dimethyl ether	115-10-6	No	Yes	Yes	Yes	Yes
2,3-Dimethylbutane	79-29-8	Yes	Yes	Yes	Yes	Yes
3-Methylpentane	96-14-0	Yes	Yes	Yes	No	Yes
Butane	106-97-8	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

2-Methylpentane	107-83-5
	1 %
Acetone	67-64-1
	1 %

2,2-Dimethylbutane	75-83-2
	1 %
2,3-Dimethylbutane	79-29-8
	1 %
3-Methylpentane	96-14-0
	1 % (related to Hexane, branched and linear)
Butane	106-97-8
	1 %

Component Analysis - Inventory 2-Methylpentane (107-83-5)

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

Acetone (67-64-1)

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

2,2-Dimethylbutane (75-83-2)

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

Propane (74-98-6)

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

Dimethyl ether (115-10-6)

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

2,3-Dimethylbutane (79-29-8)

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

3-Methylpentane (96-14-0)

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

Butane (106-97-8)

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

Section 16 - OTHER INFORMATION

HMIS Rating

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

Summary of Changes

New SDS:11/24/2014

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:

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