Safety Data Sheet:
Material Name: Elmer's Craftbond Spray Adhesive
SDS ID: SDS-24
Issue Date: 2016-04-14
Revision: 3.4

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 Craftbond Spray Adhesive
Synonyms
E420, E421, E422, 60422Q, E6421B
Chemical Family
Adhesive
Details of the supplier of the safety data sheet

Elmer's Craft Bond Multi-purpose Spray Adhesive #E422

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

Collect spillage.
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	Isohexane	10-20
67-64-1	Acetone	10-20
75-83-2	Neohexane	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 target organs identified.

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.

Advice for firefighters

Vapors are heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Extremely flammable aerosol.Pressurized container: may burst if 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 eyes and skin. 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

Component Exposure Limits

Isohexane	**107-83-5**
ACGIH:	500 ppm TWA
	1000 ppm STEL
NIOSH:	100 ppm TWA ; 350 mg/m3 TWA (related toIsohexane)
	510 ppm Ceiling 15 min ; 1800 mg/m3 Ceiling 15 min (related toIsohexane)
Mexico:	500 ppm TWA LMPE-PPT (except n-Hexane); 1760 mg/m3 TWA LMPE-PPT (except n-Hexane) (related toHexane, branched and linear)
	1000 ppm STEL [LMPE-CT] (except n-Hexane); 3500 mg/m3 STEL [LMPE-CT] (except n-Hexane) (related toHexane, branched and linear)
Acetone	**67-64-1**
ACGIH:	250 ppm TWA
	500 ppm STEL
NIOSH:	250 ppm TWA ; 590 mg/m3 TWA
	2500 ppm IDLH (10% LEL)
Europe:	500 ppm TWA ; 1210 mg/m3 TWA
OSHA (US):	1000 ppm TWA ; 2400 mg/m3 TWA
Mexico:	1000 ppm TWA LMPE-PPT ; 2400 mg/m3 TWA LMPE-PPT
	1260 ppm STEL [LMPE-CT]; 3000 mg/m3 STEL [LMPE-CT]
Neohexane	**75-83-2**
ACGIH:	500 ppm TWA
	1000 ppm STEL
NIOSH:	100 ppm TWA ; 350 mg/m3 TWA (related toIsohexane)
	510 ppm Ceiling 15 min ; 1800 mg/m3 Ceiling 15 min (related toIsohexane)

Mexico:	500 ppm TWA LMPE-PPT (except n-Hexane); 1760 mg/m3 TWA LMPE-PPT (except n-Hexane) (related toHexane, branched and linear)
	1000 ppm STEL [LMPE-CT] (except n-Hexane); 3500 mg/m3 STEL [LMPE-CT] (except n-Hexane) (related toHexane, branched and linear)
Propane	**74-98-6**
ACGIH:	(See Appendix F: Minimal Oxygen Content)
NIOSH:	1000 ppm TWA ; 1800 mg/m3 TWA
	2100 ppm IDLH (10% LEL)
OSHA (US):	1000 ppm TWA ; 1800 mg/m3 TWA
Dimethyl ether	**115-10-6**
Europe:	1000 ppm TWA ; 1920 mg/m3 TWA
2,3-Dimethylbutane	**79-29-8**
ACGIH:	500 ppm TWA
	1000 ppm STEL
NIOSH:	100 ppm TWA ; 350 mg/m3 TWA (related toIsohexane)
	510 ppm Ceiling 15 min ; 1800 mg/m3 Ceiling 15 min (related toIsohexane)
Mexico:	500 ppm TWA LMPE-PPT (except n-Hexane); 1760 mg/m3 TWA LMPE-PPT (except n-Hexane) (related toHexane, branched and linear)
	1000 ppm STEL [LMPE-CT] (except n-Hexane); 3500 mg/m3 STEL [LMPE-CT] (except n-Hexane) (related toHexane, branched and linear)
3-Methylpentane	**96-14-0**
ACGIH:	500 ppm TWA
	1000 ppm STEL
NIOSH:	100 ppm TWA ; 350 mg/m3 TWA (related toIsohexane)
	510 ppm Ceiling 15 min ; 1800 mg/m3 Ceiling 15 min (related toIsohexane)
Mexico:	500 ppm TWA LMPE-PPT (except n-Hexane); 1760 mg/m3 TWA LMPE-PPT (except n-Hexane) (related toHexane, branched and linear)
	1000 ppm STEL [LMPE-CT] (except n-Hexane); 3500 mg/m3 STEL [LMPE-CT] (except n-Hexane) (related toHexane, branched and linear)
Butane	**106-97-8**
ACGIH:	1000 ppm STEL
NIOSH:	800 ppm TWA ; 1900 mg/m3 TWA
Mexico:	800 ppm TWA LMPE-PPT ; 1900 mg/m3 TWA LMPE-PPT

EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health Surveillance Measures

There are no biological limit values for any of this product's components.
ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)
Acetone (67-64-1)
25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
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 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.
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	**pH**	Not available
Melting Point	Not available	**Boiling Point**	Not available
Freezing point	Not available	**Evaporation Rate**	Not available
Boiling Point Range	Not applicable	**Flammability (solid, gas)**	Flammable
Autoignition	Not available	**Flash Point**	74.18 °F (23.44 °C estimated)
Lower Explosive Limit	Not available	**Decomposition temperature**	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	**Molecular Weight**	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:
Isohexane (107-83-5)
Oral LD50 Rat 15000 mg/kg (related toHexane, branched and linear)
Acetone (67-64-1)
Oral LD50 Rat 5800 mg/kg
Inhalation LC50 Rat 50100 mg/m3 8 h
Neohexane (75-83-2)
Oral LD50 Rat 15000 mg/kg (related toHexane, branched and linear)
Propane (74-98-6)
Inhalation LC50 Rat 658 mg/L 4 h
Dimethyl ether (115-10-6)
Inhalation LC50 Rat 308.5 mg/L 4 h
2,3-Dimethylbutane (79-29-8)
Oral LD50 Rat 15000 mg/kg (related toHexane, branched and linear)
3-Methylpentane (96-14-0)
Oral LD50 Rat 15000 mg/kg (related toHexane, branched and linear)
Butane (106-97-8)
Inhalation LC50 Rat 658 g/m3 4 h
Immediate Effects
May cause drowsiness or dizziness, skin irritation, eye irritation.
Delayed Effects
May be harmful if inhaled.
Irritation/Corrosivity Data
May cause respiratory irritation, skin irritation, eye 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.
Tumorigenic Data
No data available
Reproductive Toxicity
No information available for the product.
Specific Target Organ Toxicity - Single Exposure
respiratory tract.

Specific Target Organ Toxicity - Repeated Exposure
No target organs identified.
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**
Fish:	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
Required Label(s): 2.1

IMDG Information:
Shipping Name: AEROSOLS
Hazard Class: 2.1
UN#: UN1950
Required Label(s): 2.1

TDG Information:
Shipping Name: AEROSOLS
Hazard Class: 2.1
UN#: UN1950
Required Label(s): 2.1

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 lb final RQ ; 2270 kg final RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C)
Acute Health: Yes **Chronic Health:** No **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
Isohexane	**107-83-5**	Yes	Yes	Yes	Yes	Yes
Acetone	**67-64-1**	Yes	Yes	Yes	Yes	Yes
Neohexane	**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

Isohexane	**107-83-5**
	1 %
Acetone	**67-64-1**
	1 %
Neohexane	**75-83-2**
	1 %
2,3-Dimethylbutane	**79-29-8**
	1 %
3-Methylpentane	**96-14-0**
	1 % (related toHexane, branched and linear)
Butane	**106-97-8**
	1 %

Component Analysis - Inventory

Isohexane (107-83-5)

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

Acetone (67-64-1)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW

Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes

Neohexane (75-83-2)

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

Propane (74-98-6)

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

Dimethyl ether (115-10-6)

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

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

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

3-Methylpentane (96-14-0)

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

Butane (106-97-8)

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

Updated SDS: 4/14/2016

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; ENCS - Japan Existing and New Chemical Substance Inventory, 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; ISHL - Japan Industrial Safety and Health Law, JP - Japan; Kow - Octanol/water partition coefficient; KECI - Korea Existing Chemicals Inventory, KECL – Korea Existing Chemicals List, 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; TCCA – Korea Toxic Chemicals Control Act, TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information

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.