



## Safety Data Sheet

Material Name: Elmer's Multi-Purpose Spray Adhesive

SDS ID: SDS-23

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

#### Material Name

Elmer's Multi-Purpose Spray Adhesive

#### Synonyms

E451, E452, 60451, E6451B, E6452B

#### Chemical Family

Adhesive

#### Details of the supplier of the safety data sheet

Newell Office Brands

Product of Newell Office Brands, Inc.

6655 Peachtree Dunwoody Rd. NE

Atlanta, GA 30328

www.elmers.com

Phone: 1.888.435.6377

Emergency Phone #: 1.888.516.2502

### Section 2 - HAZARDS IDENTIFICATION

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

Flammable Aerosols - Category 1

Gases Under Pressure - Compressed gas

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.

Contains gas under pressure; may explode if heated.

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)



## Safety Data Sheet

**Material Name: Elmer's Multi-Purpose Spray Adhesive**

**SDS ID: SDS-23**

### 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.

### Statement(s) of Unknown Aquatic Toxicity

0% of the mixture consists of ingredient(s) of unknown acute aquatic toxicity.  
30% of the mixture consists of ingredient(s) of unknown chronic aquatic toxicity.

### 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



## Safety Data Sheet

**Material Name: Elmer's Multi-Purpose Spray Adhesive**

**SDS ID: SDS-23**

### 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.

#### 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



## Safety Data Sheet

**Material Name: Elmer's Multi-Purpose Spray Adhesive**

**SDS ID: SDS-23**

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/m <sup>3</sup> TWA (related to Isohexane)
	510 ppm Ceiling 15 min ; 1800 mg/m <sup>3</sup> Ceiling 15 min (related to Isohexane)
Mexico:	500 ppm TWA VLE-PPT (except n-Hexane ) ; 1760 mg/m <sup>3</sup> TWA VLE-PPT (except n-Hexane ) (related to Hexane, branched and linear)
	1000 ppm STEL [PPT-CT ] (except n-Hexane ) ; 3500 mg/m <sup>3</sup> STEL [PPT-CT ] (except n-Hexane ) (related to Hexane, branched and linear)



## Safety Data Sheet

**Material Name: Elmer's Multi-Purpose Spray Adhesive**

**SDS ID: SDS-23**

<b>Acetone</b>	<b>67-64-1</b>
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 VLE-PPT ; 2400 mg/m3 TWA VLE-PPT
	1260 ppm STEL [PPT-CT ] ; 3000 mg/m3 STEL [PPT-CT ]
<b>Neohexane</b>	<b>75-83-2</b>
ACGIH:	500 ppm TWA
	1000 ppm STEL
NIOSH:	100 ppm TWA ; 350 mg/m3 TWA (related to Isohexane)
	510 ppm Ceiling 15 min ; 1800 mg/m3 Ceiling 15 min (related to Isohexane)
Mexico:	500 ppm TWA VLE-PPT (except n-Hexane ) ; 1760 mg/m3 TWA VLE-PPT (except n-Hexane ) (related to Hexane, branched and linear)
	1000 ppm STEL [PPT-CT ] (except n-Hexane ) ; 3500 mg/m3 STEL [PPT-CT ] (except n-Hexane ) (related to Hexane, branched and linear)
<b>Propane</b>	<b>74-98-6</b>
ACGIH:	(See Appendix F: Minimal Oxygen Content, explosion hazard )
NIOSH:	1000 ppm TWA ; 1800 mg/m3 TWA
	2100 ppm IDLH (10% LEL )
OSHA (US):	1000 ppm TWA ; 1800 mg/m3 TWA
<b>Dimethyl ether</b>	<b>115-10-6</b>
Europe:	1000 ppm TWA ; 1920 mg/m3 TWA
<b>2,3-Dimethylbutane</b>	<b>79-29-8</b>
ACGIH:	500 ppm TWA



## Safety Data Sheet

**Material Name: Elmer's Multi-Purpose Spray Adhesive**

**SDS ID: SDS-23**

	1000 ppm STEL
NIOSH:	100 ppm TWA ; 350 mg/m3 TWA (related to Isohexane)
	510 ppm Ceiling 15 min ; 1800 mg/m3 Ceiling 15 min (related to Isohexane)
Mexico:	500 ppm TWA VLE-PPT (except n-Hexane ) ; 1760 mg/m3 TWA VLE-PPT (except n-Hexane ) (related to Hexane, branched and linear)
	1000 ppm STEL [PPT-CT ] (except n-Hexane ) ; 3500 mg/m3 STEL [PPT-CT ] (except n-Hexane ) (related to Hexane, branched and linear)
<b>3-Methylpentane</b>	<b>96-14-0</b>
ACGIH:	500 ppm TWA
	1000 ppm STEL
NIOSH:	100 ppm TWA ; 350 mg/m3 TWA (related to Isohexane)
	510 ppm Ceiling 15 min ; 1800 mg/m3 Ceiling 15 min (related to Isohexane)
Mexico:	500 ppm TWA VLE-PPT (except n-Hexane ) ; 1760 mg/m3 TWA VLE-PPT (except n-Hexane ) (related to Hexane, branched and linear)
	1000 ppm STEL [PPT-CT ] (except n-Hexane ) ; 3500 mg/m3 STEL [PPT-CT ] (except n-Hexane ) (related to Hexane, branched and linear)
<b>Butane</b>	<b>106-97-8</b>
ACGIH:	1000 ppm STEL (explosion hazard )
NIOSH:	800 ppm TWA ; 1900 mg/m3 TWA
	1600 ppm IDLH (>10% LEL )
Mexico:	800 ppm TWA VLE-PPT ; 1900 mg/m3 TWA VLE-PPT

**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 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.



## Safety Data Sheet

Material Name: Elmer's Multi-Purpose Spray Adhesive

SDS ID: SDS-23

### 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
Boiling Point Range	Not applicable	Freezing point	Not available
Evaporation Rate	Not available	Flammability (solid, gas)	Not available
Autoignition Temperature	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	Kinematic 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



## Safety Data Sheet

**Material Name: Elmer's Multi-Purpose Spray Adhesive**

**SDS ID: SDS-23**

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 to Hexane, branched and linear)

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

Oral LD50 Rat 5800 mg/kg

Dermal LD50 Rabbit >15700 mg/kg

Inhalation LC50 Rat 50100 mg/m<sup>3</sup> 8 h

##### **Neohexane (75-83-2)**

Oral LD50 Rat 15000 mg/kg (related to Hexane, branched and linear)

##### **Propane (74-98-6)**

Inhalation LC50 Rat 658 mg/L 4 h

##### **Dimethyl ether (115-10-6)**

Inhalation LC50 Rat 164000 ppm 4 h

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

Oral LD50 Rat 15000 mg/kg (related to Hexane, branched and linear)

##### **3-Methylpentane (96-14-0)**

Oral LD50 Rat 15000 mg/kg (related to Hexane, branched and linear)

##### **Butane (106-97-8)**

Inhalation LC50 Rat 658 g/m<sup>3</sup> 4 h

### **Product Toxicity Data**

#### **Acute Toxicity Estimate**

Dermal	> 2000 mg/kg
Oral	> 2000 mg/kg

#### **Immediate Effects**

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

#### **Delayed Effects**





## Safety Data Sheet

**Material Name: Elmer's Multi-Purpose Spray Adhesive**

**SDS ID: SDS-23**

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.

### **Tumorigenic Data**

No data available

### **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
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.

### **Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components.



## Safety Data Sheet

Material Name: Elmer's Multi-Purpose Spray Adhesive

SDS ID: SDS-23

### Section 14 - TRANSPORT INFORMATION

#### Component Marine Pollutants (IMDG)

This material contains one or more of the following chemicals required by IMDG to be identified as marine pollutants

Neohexane	75-83-2
	IMDG regulated marine pollutant (UN1208 ) (related to Hexane, branched and linear)
2,3-Dimethylbutane	79-29-8
	IMDG regulated marine pollutant (UN1208 ) (related to Hexane, branched and linear)
3-Methylpentane	96-14-0
	IMDG regulated marine pollutant (UN1208 ) (related to Hexane, branched and linear)

#### US DOT Information:

**Shipping Name:** AEROSOLS

**Hazard Class:** 2.1

**UN/NA #:** UN1950

**Required Label(s):** 2.1

Marine pollutant

**Additional information:** This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently. (Special provisions: N82; Packaging exceptions: 306. )

#### IATA Information:

**Shipping Name:** AEROSOLS, FLAMMABLE

**Hazard Class:** 2.1

**UN#:** UN1950

**Required Label(s):** 2.1

Marine pollutant

**Additional information:** Special precautions for user: Read safety instructions, SDS and emergency procedures before handling. Packaging Exceptions: LTD QTY (Passenger and cargo aircraft: Allowed with restrictions; Cargo aircraft only: Allowed with restrictions )

#### IMDG Information:

**Shipping Name:** AEROSOLS

**Hazard Class:** 2.1

**UN#:** UN1950

**Required Label(s):** 2.1

Marine pollutant

**Additional information:** Special precautions for user: Read safety instructions, SDS and emergency procedures before handling. Packaging Exceptions: LTD QTY (Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable. )

#### International Bulk Chemical Code



## Safety Data Sheet

**Material Name: Elmer's Multi-Purpose Spray Adhesive**

**SDS ID: SDS-23**

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

<b>Isohexane</b>	<b>107-83-5</b>
IBC Code:	Category Y (related to Hexane, branched and linear)
<b>Neohexane</b>	<b>75-83-2</b>
IBC Code:	Category Y (related to Hexane, branched and linear)
<b>2,3-Dimethylbutane</b>	<b>79-29-8</b>
IBC Code:	Category Y (related to Hexane, branched and linear)
<b>3-Methylpentane</b>	<b>96-14-0</b>
IBC Code:	Category Y (related to Hexane, branched and linear)

### 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.

<b>Acetone</b>	<b>67-64-1</b>
CERCLA:	5000 lb final RQ ; 2270 kg final RQ

#### SARA Section 311/312 (40 CFR 370 Subparts B and C) 2016 reporting categories

**Acute Health:** Yes **Chronic Health:** Yes **Fire:** Yes **Pressure:** Yes **Reactivity:** No

#### SARA Section 311/312 (40 CFR 370 Subparts B and C) 2017 reporting categories

Flammable; Gas Under Pressure; Skin Corrosion/Irritation; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity; Aspiration Hazard

#### 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
<b>Isohexane</b>	<b>107-83-5</b>	Yes	Yes	Yes	Yes	Yes
<b>Acetone</b>	<b>67-64-1</b>	Yes	Yes	Yes	Yes	Yes
<b>Neohexane</b>	<b>75-83-2</b>	Yes	Yes	Yes	Yes	Yes
<b>Propane</b>	<b>74-98-6</b>	No	Yes	Yes	Yes	Yes
<b>Dimethyl ether</b>	<b>115-10-6</b>	No	Yes	Yes	Yes	Yes
<b>2,3-Dimethylbutane</b>	<b>79-29-8</b>	Yes	Yes	Yes	Yes	Yes
<b>3-Methylpentane</b>	<b>96-14-0</b>	Yes	Yes	Yes	No	Yes



## Safety Data Sheet

**Material Name: Elmer's Multi-Purpose Spray Adhesive**

**SDS ID: SDS-23**

<b>Butane</b>	<b>106-97-8</b>	Yes	Yes	Yes	Yes	Yes
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**Not listed under California Proposition 65**

### Canada Regulations

#### 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

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

### Component Analysis - Inventory

#### Isohexane (107-83-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

#### Acetone (67-64-1)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

#### Neohexane (75-83-2)



## Safety Data Sheet

**Material Name: Elmer's Multi-Purpose Spray Adhesive**

**SDS ID: SDS-23**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

**Propane (74-98-6)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

**Dimethyl ether (115-10-6)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

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

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

**3-Methylpentane (96-14-0)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

**Butane (106-97-8)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	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



## Safety Data Sheet

**Material Name: Elmer's Multi-Purpose Spray Adhesive**

**SDS ID: SDS-23**

**Summary of Changes** Updated SDS: 3/22/2020

### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations (US); 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; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); 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; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; 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; MX - Mexico; NDSL - Non-Domestic Substance List (Canada); 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; PEL - Permissible Exposure Limit; 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; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); WHMIS - Workplace Hazardous Materials Information System (Canada).

### Other Information

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