



Safety Data Sheet:
Material Name: Elmer's Multi-Purpose Spray Adhesive
SDS ID: elm074
Issue Date: 2014-09-16
Revision: 1.14

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

Manufacturer Information

Elmer's Products, Inc.
460 Polaris Parkway
Westerville, OH 43082

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

For additional product information, access our website at www.elmers.com or call 1-888-435-6377. To place an order, call 1-800-848-9400.

Trade Names/Synonyms

E420; E421; E422; E451; E452; 60422Q; 60451; 61451

Product Use

adhesives

***** Section 2 - HAZARDS IDENTIFICATION *****

NFPA Ratings

Health: 2 Fire: 4 Reactivity: 0

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

Emergency Overview**Color:**

white

Physical Form:

liquid

Odor:

minty odor

Major Health Hazards:

eye irritation

Physical Hazards:

Extremely flammable. Flash back hazard. Containers may rupture or explode if exposed to heat.

Potential Health Effects**Inhalation****Short Term:**

irritation, changes in body temperature, nausea, vomiting, fatigue, stomach pain, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, loss of coordination, blurred vision, kidney damage, liver damage, convulsions, unconsciousness, coma

Long Term:

irritation, changes in body temperature, headache, drowsiness, dizziness, loss of coordination, blood disorders, nausea, vomiting, irregular heartbeat, kidney damage, liver damage, convulsions, unconsciousness, coma

Skin**Short Term:**

irritation

Long Term:

irritation, tingling sensation

Eye Contact**Short Term:**

irritation (possibly severe), blurred vision, tearing

Long Term:

irritation, eye damage

Ingestion**Short Term:**

nausea, vomiting, diarrhea, headache, drowsiness, dizziness, loss of coordination, unconsciousness, stomach pain, kidney damage, liver damage

Long Term:

kidney damage, liver damage

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This product is a controlled product according to Canada's Controlled Product Regulation.

***** Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS *****

CAS	Component Name	Percent
107-83-5	2-METHYLPENTANE	35
67-64-1	ACETONE	20
75-28-5	ISOBUTANE	15

74-98-6	PROPANE	10
115-10-6	DIMETHYL ETHER	10
109-66-0	PENTANE	5
68551-19-9	ALKANES, C12-14-ISO-	5
71-43-2	BENZENE	<0.00070
75-07-0	ACETALDEHYDE	<0.00030
50-00-0	FORMALDEHYDE	<0.00030

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Hexane isomers, Aliphatic hydrocarbon gases (Alkane [C1-C4]), Pentanes.

* * * Section 4 - FIRST AID MEASURES * * *

Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

Skin

If bonding occurs, immerse the bonded surfaces in warm soapy water. Peel or roll the surfaces apart using a blunt edge, such as a spatula or spoon handle. Do not pull surfaces apart with a direct opposing action. If burns occur, treat as thermal burns. Get medical attention, if needed.

Eyes

If bonding to tissues occurs, wash with large amounts of warm water. Cover both eyes with sterile bandages. The eye will open without further action. Do not pull surfaces apart with a direct opposing action. If burns occur, treat as thermal burns. Get medical attention.

Ingestion

If swallowed, get medical attention.

Note to Physicians

For inhalation, consider oxygen.

* * * Section 5 - FIRE FIGHTING MEASURES * * *

See Section 9 for Flammability Properties

Flammable Properties

Severe fire hazard. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Containers may rupture or explode if exposed to heat.

Extinguishing Media

carbon dioxide, regular dry chemical

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. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Sensitivity to Mechanical Impact

Not sensitive

Sensitivity to Static Discharge

Yes

*** Section 6 - ACCIDENTAL RELEASE MEASURES ***

Occupational spill/release

Avoid heat, flames, sparks and other sources of ignition. Do not touch spilled material. Stop leak if possible without personal risk. Small spills of the liquid component: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Spills with a large number of canisters: Reduce vapors with water spray. Remove sources of ignition. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).

*** Section 7 - HANDLING AND STORAGE ***

Handling Procedures

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with eyes. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Since emptied containers retain material residue, follow safe handling/label warnings even after container is emptied. Do not cut, puncture, or weld on or near this container.

Storage Procedures

Store and handle in accordance with all current regulations and standards. Store below 49 C. Keep away from heat, sparks and flame. Avoid direct sunlight. See original container for storage recommendations. Keep separated from incompatible substances.

*** Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION ***

Component Exposure Limits

ACETONE	67-64-1
ACGIH:	500 ppm TWA
	750 ppm STEL
NIOSH:	250 ppmTWA; 590 mg/m ³ TWA
OSHA:	1000 ppmTWA; 2400 mg/m ³ TWA
OSHA (Vacated):	750 ppmTWA; 1800 mg/m ³ TWA

	2400 mg/m ³ STEL (The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors); 1000 ppmSTEL
ISOBUTANE	75-28-5
ACGIH:	1000 ppm STEL
NIOSH:	800 ppmTWA; 1900 mg/m ³ TWA
PROPANE	74-98-6
ACGIH:	1000 ppm TWA
NIOSH:	1000 ppmTWA; 1800 mg/m ³ TWA
OSHA:	1000 ppmTWA; 1800 mg/m ³ TWA
OSHA (Vacated):	1000 ppmTWA; 1800 mg/m ³ TWA
DIMETHYL ETHER	115-10-6
AIHA:	1000 ppm TWA
PENTANE	109-66-0
ACGIH:	1000 ppm TWA
NIOSH:	120 ppmTWA; 350 mg/m ³ TWA
	610 ppm Ceiling 15 min; 1800 mg/m ³ Ceiling 15 min
OSHA:	1000 ppmTWA; 2950 mg/m ³ TWA
OSHA (Vacated):	600 ppmTWA; 1800 mg/m ³ TWA
	750 ppmSTEL; 2250 mg/m ³ STEL
BENZENE	71-43-2
ACGIH:	0.5 ppm TWA
	2.5 ppm STEL
	Skin - potential significant contribution to overall exposure by the cutaneous route
NIOSH:	0.1 ppmTWA
	1 ppmSTEL
OSHA:	10 ppmTWAapplies to industry segments exempt from the benzene standard at 29 CFR 1910.1028; 1 ppmTWA
	5 ppmSTEL (See 29 CFR 1910.1028)
	25 ppmCeiling
OSHA (Vacated):	10 ppmTWA (unless specified in 1910.1028)
	50 ppmSTEL (unless specified in 1910.1028) 10 min
	25 ppmCeiling (unless specified in 1910.1028)
ACETALDEHYDE	75-07-0
ACGIH:	25 ppm Ceiling
OSHA:	200 ppmTWA; 360 mg/m ³ TWA
OSHA (Vacated):	100 ppmTWA; 180 mg/m ³ TWA
	150 ppmSTEL; 270 mg/m ³ STEL

FORMALDEHYDE	50-00-0
ACGIH:	0.3 ppm Ceiling
NIOSH:	0.016 ppmTWA
	0.1 ppm Ceiling 15 min
OSHA:	0.75 ppmTWA
	2 ppmSTEL (See 29 CFR 1910.1048)
OSHA (Vacated):	3 ppmTWA (unless specified in 1910.1048)
	10 ppmSTEL (unless specified in 1910.1048) 30 min
	5 ppmCeiling (unless specified in 1910.1048)

Component Analysis

Biological limit value

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

Ventilation

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

PERSONAL PROTECTIVE EQUIPMENT

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

Protective Clothing

Wear appropriate chemical resistant clothing.

Glove Recommendations

Wear appropriate chemical resistant gloves.

Respiratory Protection

Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use. For Unknown Concentrations or Immediately Dangerous to Life or Health - Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

* * * Section 9 - PHYSICAL AND CHEMICAL PROPERTIES * * *

Appearance	white liquid	Physical State	Aerosol
Odor	minty odor	Color	white
Odor Threshold	Not available	pH	Not available
Melting Point	Not available	Boiling Point	-44 - -44 °C
Freezing point	Not available	Evaporation Rate	(faster than, butyl acetate)
Boiling Point Range	Not available	Flammability (solid, gas)	Not available
Autoignition	Not available	Flash Point	-104 °C (PMCC)

Lower Explosive Limit	1 %	Decomposition	Not available
Upper Explosive Limit	18 %	Vapor Pressure	Not available
Vapor Density (air=1)	>1	Specific Gravity (water=1)	0.6932
Water Solubility	(negligible)	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Solubility (Other)	Not available
Density	Not available	Physical Form	liquid
VOC	64.3 % weight	VOC less Water and Exempt Solvents	522 g/L
Volatility by Volume	87 %	Volatility by Weight	81.1 %

***** Section 10 - STABILITY AND REACTIVITY *****

Chemical Stability

Stable at normal temperatures and pressure.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Minimize contact with material. Containers may rupture or explode if exposed to heat.

Materials to Avoid

acids, amines, bases, oxidizing materials, reducing agents

Decomposition Products

hydrocarbons, oxides of carbon, oxides of sulfur

Possibility of Hazardous Reactions

Will not polymerize.

***** Section 11 - TOXICOLOGICAL INFORMATION *****

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

ACETONE (67-64-1)

Inhalation LC50Rat 50100 mg/m³ 8 h

ISOBUTANE (75-28-5)

Inhalation LC50Rat 658 mg/L 4 h

PROPANE (74-98-6)

Inhalation LC50Rat 658 mg/L 4 h

DIMETHYL ETHER (115-10-6)

Inhalation LC50Rat 308.5 mg/L 4 h

PENTANE (109-66-0)

Rat >2000 mg/kg Oral LD50 1999 JTEHF8 RZ9450000

Dermal LD50Rabbit 3000 mg/kg

Inhalation LC50Rat 364 g/m³ 4 h

BENZENE (71-43-2)

Mouse 4700 mg/kg Oral LD50 1967 HYSAAV CY1400000

Dermal LD50Rabbit >8200 mg/kg

Inhalation LC50Rat 44.66 mg/L 4 h

ACETALDEHYDE (75-07-0)
 Oral LD50Rat 660 mg/kg
 Inhalation LC50Rat 13000 ppm 4 h
 FORMALDEHYDE (50-00-0)
 Oral LD50Rat 600 mg/kg
 Dermal LD50Rabbit 270 mg/kg
 Inhalation LC50Rat 0.578 mg/L 4 h

RTECS Acute Toxicity (selected)

The components of this material have been reviewed, and RTECS publishes the following endpoints:

ACETONE	67-64-1
Inhalation:	50100 mg/m ³ Inhalation Rat LC50; 50100 mg/m ³ /8 hour Inhalation Rat LC50
Oral:	5800 mg/kg Oral Rat LD50; 5800 mg/kg Oral Rat LD50
Skin:	>9400 uL/kg Skin Guinea pig LD50
ISOBUTANE	75-28-5
Inhalation:	658000 mg/m ³ /4 hour Inhalation Rat LC50; 57 pph/15 minute(s) Inhalation Rat LC50; 570000 ppm/15 minute(s) Inhalation Rat LC50
PROPANE	74-98-6
Inhalation:	>800000 ppm/15 minute(s) Inhalation Rat LC50
DIMETHYL ETHER	115-10-6
Inhalation:	309 gm/m ³ /4 hour Inhalation Rat LC50; 308 gm/m ³ Inhalation Rat LC50; 164000 ppm/4 hour Inhalation Rat LC50
PENTANE	109-66-0
Inhalation:	364 gm/m ³ /4 hour Inhalation Rat LC50
Oral:	>2000 mg/kg Oral Rat LD50

Acute Toxicity Level

ACETONE (67-64-1)

Moderately Toxic:

inhalation

Slightly Toxic:

ingestion

ISOBUTANE (75-28-5)

Non Toxic:

inhalation

DIMETHYL ETHER (115-10-6)

Slightly Toxic:

inhalation

PENTANE (109-66-0)

Non Toxic:

inhalation

BENZENE (71-43-2)

Highly Toxic:

dermal absorption

Moderately Toxic:

ingestion

Slightly Toxic:

inhalation

ACETALDEHYDE (75-07-0)

Moderately Toxic:

inhalation, ingestion

Slightly Toxic:

dermal absorption
 FORMALDEHYDE (50-00-0)
 Highly Toxic:
 inhalation
 Toxic:
 dermal absorption, ingestion

Component Carcinogenicity

ACETONE	67-64-1
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
BENZENE	71-43-2
ACGIH:	A1 - Confirmed Human Carcinogen
IARC:	Monograph 100F [2012]; Supplement 7 [1987]; Monograph 29 [1982](Group 1 (carcinogenic to humans))
NTP:	Known Human Carcinogen
OSHA:	Present
	see 29 CFR 1910.1028
ACETALDEHYDE	75-07-0
ACGIH:	A2 - Suspected Human Carcinogen
IARC:	Monograph 100E [2012] (associated with consumption of alcoholic beverages) (Group 1 (carcinogenic to humans))
	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 36 [1985](Group 2B (possibly carcinogenic to humans))
NTP:	Reasonably Anticipated To Be A Human Carcinogen
OSHA:	Present
FORMALDEHYDE	50-00-0
ACGIH:	A2 - Suspected Human Carcinogen
IARC:	Monograph 100F [2012]; Monograph 88 [2006]; Monograph 62 [1995]; Supplement 7 [1987](Group 1 (carcinogenic to humans))
NTP:	Known Human Carcinogen
OSHA:	Present
	see 29 CFR 1910.1048

Irritation

eye irritation

RTECS Irritation

The components of this material have been reviewed, and RTECS publishes the following endpoints:

ACETONE (67-64-1)

500 ppm Eyes Human ; 186300 ppm Eyes Human mild; 10 uL Eyes Rabbit mild; 20 mg/24 hour Eyes Rabbit moderate; 20 mg Eyes Rabbit severe; 395 mg/open Skin Rabbit mild; 500 mg/24 hour Skin Rabbit mild

Local Effects

2-METHYLPENTANE (107-83-5)

Irritant:

inhalation, skin, eye

ACETONE (67-64-1)

Irritant:

inhalation, skin, eye

ISOBUTANE (75-28-5)

Irritant:

inhalation

DIMETHYL ETHER (115-10-6)

Irritant:

inhalation, skin, eye

PENTANE (109-66-0)

Irritant:

inhalation, skin

BENZENE (71-43-2)

Irritant:

inhalation, skin, eye

ACETALDEHYDE (75-07-0)

Irritant:

inhalation, skin, eye

FORMALDEHYDE (50-00-0)

Irritant:

skin, eye

Corrosive:

inhalation, skin, eye, ingestion

Target Organs

2-METHYLPENTANE (107-83-5)

central nervous system

ACETONE (67-64-1)

central nervous system

ISOBUTANE (75-28-5)

central nervous system

PROPANE (74-98-6)

central nervous system

DIMETHYL ETHER (115-10-6)

central nervous system

PENTANE (109-66-0)

central nervous system

BENZENE (71-43-2)

immune system (blood), central nervous system

ACETALDEHYDE (75-07-0)

immune system (sensitizer), central nervous system

FORMALDEHYDE (50-00-0)

immune system (sensitizer)

Medical Conditions Aggravated by Exposure

respiratory disorders, skin disorders and allergies,

RTECS Mutagenic

The components of this material have been reviewed, and RTECS does have published data for one or more components.

RTECS Reproductive Effects

The components of this material have been reviewed, and RTECS does have published data for one or more components.

Additional Data

Stimulants such as epinephrine may induce ventricular fibrillation Alcohol may enhance the toxic effects.

***** Section 12 - ECOLOGICAL INFORMATION *****

Component Analysis - Aquatic Toxicity

ACETONE	67-64-1
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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
PENTANE	109-66-0
Fish:	LC50 96 h Oncorhynchus mykiss 9.87 mg/L; LC50 96 h Pimephales promelas 11.59 mg/L; LC50 96 h Lepomis macrochirus 9.99 mg/L
Invertebrate:	EC50 48 h Daphnia magna 9.74 mg/L IUCLID
BENZENE	71-43-2
Fish:	LC50 96 h Pimephales promelas 10.7 - 14.7 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 5.3 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 22.49 mg/L [static]; LC50 96 h Poecilia reticulata 28.6 mg/L [static]; LC50 96 h Pimephales promelas 22330 - 41160 µg/L [static]; LC50 96 h Lepomis macrochirus 70000 - 142000 µg/L [static]
Algae:	EC50 72 h Pseudokirchneriella subcapitata 29 mg/L EPA
Invertebrate:	EC50 48 h Daphnia magna 8.76 - 15.6 mg/L [static] EPA; EC50 48 h Daphnia magna 10 mg/L IUCLID
ACETALDEHYDE	75-07-0
Fish:	LC50 96 h Pimephales promelas 28 - 34 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 53 mg/L [static]; LC50 96 h Oncorhynchus mykiss 1.8 - 2.4 mg/L [static]; LC50 96 h Pimephales promelas 39.8 - 46.8 mg/L [static]
Invertebrate:	EC50 48 h Daphnia magna 3.64 - 6.15 mg/L [static] EPA; EC50 48 h Daphnia magna 48.3 mg/L IUCLID
FORMALDEHYDE	50-00-0
Fish:	LC50 96 h Pimephales promelas 22.6 - 25.7 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 1510 µg/L [static]; LC50 96 h Brachydanio rerio 41 mg/L [static]; LC50 96 h Oncorhynchus mykiss 0.032 - 0.226 mL/L [flow-through]; LC50 96 h Oncorhynchus mykiss 100 - 136 mg/L [static]; LC50 96 h Pimephales promelas 23.2 - 29.7 mg/L [static]
Invertebrate:	LC50 48 h Daphnia magna 2 mg/L IUCLID; EC50 48 h Daphnia magna 11.3 - 18 mg/L [static] EPA

***** Section 13 - DISPOSAL CONSIDERATIONS *****

Disposal Methods

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

***** 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
Packing Group:
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 lbfinal RQ; 2270 kgfinal RQ
BENZENE	71-43-2
SARA 313:	0.1 % de minimis concentration
CERCLA:	10 lbfinal RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule); 4.54 kgfinal RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule)
ACETALDEHYDE	75-07-0
SARA 313:	0.1 % de minimis concentration
CERCLA:	1000 lbfinal RQ; 454 kgfinal RQ
TSCA 12b:	Section 4 , 0.1 % de minimus concentration
OSHA (safety):	2500 lb TQ
FORMALDEHYDE	50-00-0
SARA 302:	500 lb TPQ
SARA 313:	0.1 % de minimis concentration
CERCLA:	100 lbfinal RQ; 45.4 kgfinal RQ
OSHA (safety):	1000 lb TQ
SARA 304:	100 lb EPCRA 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
2-METHYLPENTANE	107-83-5	No	Yes	Yes	Yes	Yes
ACETONE	67-64-1	Yes	Yes	Yes	Yes	Yes
ISOBUTANE	75-28-5	No	Yes	No	Yes	Yes
PROPANE	74-98-6	No	Yes	Yes	Yes	Yes
DIMETHYL ETHER	115-10-6	No	Yes	Yes	Yes	Yes
PENTANE	109-66-0	Yes	Yes	Yes	Yes	Yes

PENTANE	109-66-0	Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No
ALKANES, C12-14-ISO-	68551-19-9	Yes	DSL	EIN	Yes	No	No	No	Yes	No	Yes	Yes	No
BENZENE	71-43-2	Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No
ACETALDEHYDE	75-07-0	Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No
FORMALDEHYDE	50-00-0	Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

Canadian Inventory

All components of this product are listed on the DSL.

U.S. Inventory (TSCA)

All the components of this substance are listed on or are exempt from the inventory.

* * * Section 16 - OTHER INFORMATION * * *

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; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; 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; 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; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; 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

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE, except that the product shall conform to contracted specifications, and that the product does not infringe any valid United States or Canadian patent. No claim of any kind shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise. MSDS Update: 9/16/2014

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Summary of Changes

MSDS Update: 9/16/2014