



## MATERIAL SAFETY DATA SHEET

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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Elmer's Products, Inc.  
1 Easton Oval  
Columbus, OH 43219

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

For additional product information, access our website at [www.elmers.com](http://www.elmers.com) or call 1-888-435-6377. To place an order, call 1-800-848-9400.

**SUBSTANCE: ELMER'S FIBERGLASS RESIN - RESIN COMPONENT**

**TRADE NAMES/SYNONYMS: E770; E771**

**CREATION DATE: Mar 14 2005**

**REVISION DATE: Jul 20 2005**

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### 2. COMPOSITION, INFORMATION ON INGREDIENTS

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**COMPONENT: STYRENE MONOMER**

**CAS NUMBER: 100-42-5**

**PERCENTAGE: 30-40**

**COMPONENT: NON-HAZARDOUS SUBSTANCE**

**CAS NUMBER: Not assigned.**

**PERCENTAGE: 60-70**

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### 3. HAZARDS IDENTIFICATION

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**NFPA RATINGS (SCALE 0-4): HEALTH=2 FIRE=3 REACTIVITY=0**



**EMERGENCY OVERVIEW:****COLOR:** amber**PHYSICAL FORM:** liquid**MAJOR HEALTH HAZARDS:** respiratory tract irritation, skin irritation, eye irritation, central nervous system depression, aspiration hazard, suspect cancer hazard (in animals)**PHYSICAL HAZARDS:** Flammable liquid and vapor. Vapor may cause flash fire.**POTENTIAL HEALTH EFFECTS:****INHALATION:****SHORT TERM EXPOSURE:** irritation, dizziness, drowsiness, nausea, headache, vomiting, weakness, fatigue, stomach pain, chest pain, disorientation, mood swings, tremors, loss of coordination, unconsciousness, coma**LONG TERM EXPOSURE:** irritation, nausea, vomiting, loss of appetite, headache, fatigue, disorientation, pain in extremities, menstrual disorders, nerve damage, brain damage, tumors**SKIN CONTACT:****SHORT TERM EXPOSURE:** irritation, itching, absorption may occur, nausea, vomiting, stomach pain, chest pain, headache, drowsiness, dizziness, disorientation, mood swings, tremors, loss of coordination, unconsciousness, coma**LONG TERM EXPOSURE:** irritation**EYE CONTACT:****SHORT TERM EXPOSURE:** irritation, tearing, blurred vision, eye damage**LONG TERM EXPOSURE:** irritation**INGESTION:****SHORT TERM EXPOSURE:** gastrointestinal irritation, nausea, vomiting, diarrhea, stomach pain, chest pain, headache, drowsiness, dizziness, disorientation, mood swings, tremors, loss of coordination, unconsciousness, aspiration hazard, coma**LONG TERM EXPOSURE:** tumors

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**4. FIRST AID MEASURES**

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**INHALATION:** If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.**SKIN CONTACT:** Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.**EYE CONTACT:** Flush eyes with plenty of water for at least 15 minutes. Then get

immediate medical attention.

**INGESTION:** Aspiration hazard. DO NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Get immediate medical attention. Give artificial respiration if not breathing.

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## 5. FIRE FIGHTING MEASURES

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**FIRE AND EXPLOSION HAZARDS:** Severe fire hazard. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Vapor/air mixtures are explosive above flash point.

**EXTINGUISHING MEDIA:** carbon dioxide, regular dry chemical, regular foam, water

**FIRE FIGHTING:** Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Flood with fine water spray. Do not scatter spilled material with high-pressure water streams. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

**FLASH POINT:** 90 F (32 C) (CC)

**FLAMMABILITY CLASS (OSHA):** IC

**HAZARDOUS COMBUSTION PRODUCTS:**

Thermal decomposition products or combustion: oxides of carbon

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## 6. ACCIDENTAL RELEASE MEASURES

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**OCCUPATIONAL RELEASE:**

Avoid heat, flames, sparks and other sources of ignition. Stop leak if possible without personal risk. Reduce vapors with water spray. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. 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).

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## 7. HANDLING AND STORAGE

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**STORAGE:** Store and handle in accordance with all current regulations and standards. Avoid heat, flames, sparks and other sources of ignition. Store below 100 F. Subject to storage regulations: U.S. OSHA 29 CFR 1910.106. Grounding and bonding required. See original container for storage recommendations. Keep separated from incompatible substances.

**HANDLING:** Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing vapors.

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## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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### **EXPOSURE LIMITS:**

#### **STYRENE MONOMER:**

#### **STYRENE:**

100 ppm OSHA TWA

200 ppm OSHA ceiling

600 ppm OSHA peak (5 minutes in any 3 hours)

50 ppm (213 mg/m<sup>3</sup>) OSHA TWA (vacated by 58 FR 35338, June 30, 1993)

100 ppm (426 mg/m<sup>3</sup>) OSHA STEL (vacated by 58 FR 35338, June 30, 1993)

20 ppm ACGIH TWA

40 ppm ACGIH STEL

50 ppm (215 mg/m<sup>3</sup>) NIOSH recommended TWA 10 hour(s)

100 ppm (425 mg/m<sup>3</sup>) NIOSH recommended STEL

**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.

**EYE PROTECTION:** Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**CLOTHING:** Wear appropriate chemical resistant clothing.

**GLOVES:** Wear appropriate chemical resistant gloves.

**PROTECTIVE MATERIAL TYPES:** rubber

**RESPIRATOR:** 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.

Any chemical cartridge respirator with organic vapor cartridge(s).

Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s).

Any air-purifying respirator with a full facepiece and an organic vapor canister.

**For Unknown Concentrations or Immediately Dangerous to Life or Health -**

Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.

Any self-contained breathing apparatus with a full facepiece.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**PHYSICAL STATE:** liquid

**APPEARANCE:** opaque

**COLOR:** amber

**ODOR:** Not available

**BOILING POINT:** Not available

**FREEZING POINT:** Not available

**VAPOR PRESSURE:** Not available

**VAPOR DENSITY (air=1):** >1

**SPECIFIC GRAVITY (water=1):** 1.15

**WATER SOLUBILITY:** Not available

**PH:** Not available

**VOLATILITY:** Not available

**VOLATILITY BY WEIGHT:** 35% approximate

**ODOR THRESHOLD:** Not available

**EVAPORATION RATE:**

<1 (ether=1)>**VOC:** 402 g/L

**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not available

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## 10. STABILITY AND REACTIVITY

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**REACTIVITY:** Stable at normal temperatures and pressure.

**CONDITIONS TO AVOID:** Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Keep out of water supplies and sewers.

**INCOMPATIBILITIES:** acids, alkalis, oxidizing materials

**HAZARDOUS DECOMPOSITION:**

Thermal decomposition products or combustion: oxides of carbon

**POLYMERIZATION:** Will not polymerize.

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**11. TOXICOLOGICAL INFORMATION**

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**STYRENE MONOMER:****IRRITATION DATA:**

500 mg rinsed skin-human; 500 mg open skin-rabbit mild; 100 percent skin-rabbit moderate; 100 mg eyes-rabbit severe; 100 mg/24 hour(s) eyes-rabbit moderate

**TOXICITY DATA:**

11800 mg/m<sup>3</sup>/4 hour(s) inhalation-rat LC50; >5010 mg/kg skin-rabbit LD50; 2650 mg/kg oral-rat LD50

**CARCINOGEN STATUS:** IARC: Human Inadequate Evidence, Animal Limited Evidence, Group 2B; ACGIH: A4 -Not Classifiable as a Human Carcinogen

**LOCAL EFFECTS:**

Irritant: inhalation, skin, eye

**ACUTE TOXICITY LEVEL:**

Moderately Toxic: inhalation, ingestion

**TARGET ORGANS:** central nervous system

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** central nervous system disorders, respiratory disorders, skin disorders and allergies

**TUMORIGENIC DATA:** Available.

**MUTAGENIC DATA:** Available.

**REPRODUCTIVE EFFECTS DATA:** Available.

**ADDITIONAL DATA:** May cross the placenta. Alcohol may enhance the toxic effects.

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**12. ECOLOGICAL INFORMATION**

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Not available

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**13. DISPOSAL CONSIDERATIONS**

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

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## 14. TRANSPORT INFORMATION

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**U.S. DOT 49 CFR 172.101:**

**PROPER SHIPPING NAME:** Styrene monomer, stabilized mixture

**ID NUMBER:** UN2055

**HAZARD CLASS OR DIVISION:** 3

**PACKING GROUP:** III

**LABELING REQUIREMENTS:** 3



**CANADIAN TRANSPORTATION OF DANGEROUS GOODS:**

**SHIPPING NAME:** Styrene monomer, stabilized mixture

**UN NUMBER:** UN2055

**CLASS:** 3

**PACKING GROUP/RISK GROUP:** III

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## 15. REGULATORY INFORMATION

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**U.S. REGULATIONS:**

**CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):**

**STYRENE:** 1000 LBS RQ

**Aniline:** 5000 LBS RQ

**1,4-Dioxane:** 100 LBS RQ

**ETHYLENE OXIDE:** B10 LBS RQ

**Benzene:** 10 LBS RQ

**SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):** Not regulated.

**SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40):** Not regulated.

**SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):**

**ACUTE:** Yes

**CHRONIC:** Yes

**FIRE:** Yes

**REACTIVE:** No

**SUDDEN RELEASE:** No

**SARA TITLE III SECTION 313 (40 CFR 372.65):**

**STYRENE**

**OSHA PROCESS SAFETY (29CFR1910.119):**

**ETHYLENE OXIDE: 5000 LBS TQ**

**STATE REGULATIONS:**

**California Proposition 65:** Known to the state of California to cause the following:

**Aniline**

Cancer (Jan 01, 1990)

**1,4-Dioxane**

Cancer (Jan 01, 1988)

**ETHYLENE OXIDE**

Cancer (Jul 01, 1987)

Female reproductive toxicity (Feb 27, 1987)

**Benzene**

Cancer (Feb 27, 1987)

Developmental toxicity (Dec 26, 1997)

Male reproductive toxicity (Dec 26, 1997)

**CANADIAN REGULATIONS:**

**WHMIS CLASSIFICATION:** B2, D2A, D2B.

**NATIONAL INVENTORY STATUS:**

**U.S. INVENTORY (TSCA):** All the components of this substance are listed on or are exempt from the inventory.

**TSCA 12(b) EXPORT NOTIFICATION:** Not listed.

**CANADA INVENTORY (DSL/NDSL):** All of the components of this product are listed on the DSL.

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**16. OTHER INFORMATION**

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**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**



**Section Nine: Physical and Chemical Properties**

Form:	Liquid	Color:	Colorless
Odor:	Mild	Boiling Point:	N/D
Solubility in Water:	Soluble	Specific Gravity:	N/D
Melting/Freezing Point:	N/D	Evaporation Rate:	Not Applicable
Auto Ignition Temperature:	N/A	Flash Point:	Not Applicable
pH:	6-8	Vapor Pressure:	Not Applicable
VOC:	Not Applicable		

**Section Ten: Stability and Reactivity**

Stability:	Stable under ordinary conditions of use and storage
Conditions to Avoid:	Strong oxidizing agents
Incompatibility with Other Materials:	Acids and oxidizers
Decomposition:	May produce carbon monoxide, carbon dioxide, nitrogen oxides and irritating fumes
Polymerization:	Polymerization cannot occur

**Section Eleven: Toxicological Information**

See Section Two: Hazard Identification for any hazards

**Section Twelve: Ecological Information**

Environmental Fate:	No information found
Environmental Toxicity:	This material is not expected to be toxic to aquatic life
Chemical Fate	Material is readily biodegradable

**Section Thirteen: Disposal Considerations**

Dispose in accordance with Federal, State and Local Regulations

**Section Fourteen: Transport Information**

Domestic (Land, DOT), International (Water, IMO), International (Air, ICAO, IATA)	
DOT:	Not Regulated
IATA:	Not available
IMO:	Not available

**Section Fifteen: Regulatory Information**

TSCA and DSL: The product listed on this Material Safety Data Sheet is not listed on the Toxic Substances Control Act Inventory or Domestic Substance List. All ingredients used to manufacture this product are listed on the TSCA and DSL Inventories.

**Section Sixteen: Other Information**

HMIS Code	
Health	1
Flammability	0
Reactivity	0
Personal Protection	NA

0=Minimal / 4 = Extreme

NewellRubbermaid, Inc (Sanford L.P ) has been advised by Counsel that the OSHA Hazard Communication Standard and the Health Canada Workplace Hazardous Materials Information Standard do not apply to the product described in this Material Safety Data Sheet. The reasons for the exemptions are contained in 29 CFR 1910.1200(b)(6)(ix) as amended Sept 14, 2009 per the Code of Federal Regulations and also Canadian Hazardous Products Act part 12 section (f) as amended June 1, 2009. The information contained in this MSDS is forwarded to you for your information, but is not meant to imply that the product is covered by nor is this MSDS meant to comply with all requirements of the hazard communication standards

Reference Product Images

