1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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 or call 1-888-435-6377. To place an order, call 1-800-848-9400.

SUBSTANCE: ELMER'S FIBERGLASS RESIN - HARDENER COMPONENT

TRADE NAMES/SYNONYMS: E770; E771

CREATION DATE: March 14, 2005
REVISION DATE: July 13, 2005

2. COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: 2-BUTANONE PEROXIDE
CAS NUMBER: 1338-23-4
PERCENTAGE: 30-35
COMPONENT: 2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE  
CAS NUMBER: 6846-50-0  
PERCENTAGE: 60-70

COMPONENT: HYDROGEN PEROXIDE  
CAS NUMBER: 7722-84-1  
PERCENTAGE: 0-5

COMPONENT: METHYL ETHYL KETONE  
CAS NUMBER: 78-93-3  
PERCENTAGE: 0-2

COMPONENT: WATER  
CAS NUMBER: 7732-18-5  
PERCENTAGE: 0-2

3. HAZARDS IDENTIFICATION

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

EMERGENCY OVERVIEW:
COLOR: clear  
PHYSICAL FORM: liquid  
ODOR: faint odor, ketone odor  
MAJOR HEALTH HAZARDS: potentially fatal if inhaled, harmful if swallowed, respiratory tract burns, skin burns, eye burns, mucous membrane burns  
PHYSICAL HAZARDS: Flash back hazard. Combustible liquid and vapor.

POTENTIAL HEALTH EFFECTS:
INHALATION:  
SHORT TERM EXPOSURE: burns, potentially fatal if inhaled
LONG TERM EXPOSURE: burns
SKIN CONTACT:
SHORT TERM EXPOSURE: burns
LONG TERM EXPOSURE: burns
EYE CONTACT:
SHORT TERM EXPOSURE: burns
LONG TERM EXPOSURE: burns
INGESTION:
SHORT TERM EXPOSURE: burns
LONG TERM EXPOSURE: burns

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 CONTACT: Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Thoroughly clean and dry contaminated clothing and shoes before reuse. Destroy contaminated shoes.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

INGESTION: If swallowed, drink plenty of water, do NOT induce vomiting. Get immediate medical attention.

NOTE TO PHYSICIAN: For inhalation, consider oxygen. Avoid gastric lavage or emesis.
5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Moderate 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. Do not get water inside container. Cool containers with water spray until well after the fire is out. Reduce vapors with water spray. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

FLASH POINT: 180 F (82.2 C) (CC)
FLAMMABILITY CLASS (OSHA): IIIA

HAZARDOUS COMBUSTION PRODUCTS:
Thermal decomposition products or combustion: oxides of carbon, ethane, methane

6. ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE:
Avoid heat, flames, sparks and other sources of ignition. Do not touch spilled material. Stop leak if possible without personal risk. Reduce vapors with water spray. Do not get water inside container. 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).
7. HANDLING AND STORAGE

**STORAGE:** Store and handle in accordance with all current regulations and standards. Store below 86 F. Avoid heat, flames, sparks and other sources of ignition. Subject to storage regulations: U.S. OSHA 29 CFR 1910.106. Grounding and bonding required. Notify State Emergency Response Commission for storage or use at amounts greater than or equal to the TPQ (U.S. EPA SARA Section 302). SARA Section 303 requires facilities storing a material with a TPQ to participate in local emergency response planning (U.S. EPA 40 CFR 355.30). 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. Subject to handling regulations: U.S. OSHA 29 CFR 1910.119.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

**EXPOSURE LIMITS:**

**2-BUTANONE PEROXIDE:**
0.7 ppm (5 mg/m3) OSHA ceiling (vacated by 58 FR 35338, June 30, 1993)
0.2 ppm ACGIH ceiling
0.2 ppm (1.5 mg/m3) NIOSH recommended ceiling

**HYDROGEN PEROXIDE:**
1 ppm (1.4 mg/m3) OSHA TWA
1 ppm ACGIH TWA
1 ppm (1.4 mg/m3) NIOSH recommended TWA 10 hour(s)

**VENTILATION:** Provide local exhaust or process enclosure 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**

**PHYSICAL STATE:** liquid

**APPEARANCE:** clear

**COLOR:** clear

**ODOR:** faint odor, ketone odor

**BOILING POINT:** Not available

**FREEZING POINT:** Not available

**DECOMPOSITION POINT:** >131 F (>55 C)

**VAPOR PRESSURE:** Not available
10. STABILITY AND REACTIVITY

REACTIVITY: May decompose explosively when heated. Avoid contact with temperatures above 131 F.

CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition. Minimize contact with material. Keep out of water supplies and sewers.

INCOMPATIBILITIES: acids, alkalis, oxidizing materials

HAZARDOUS DECOMPOSITION: Thermal decomposition products or combustion: oxides of carbon, ethane, methane

POLYMERIZATION: Will not polymerize.

11. TOXICOLOGICAL INFORMATION
2-BUTANONE PEROXIDE:
IRRITATION DATA:
500 mg skin-rabbit; 3 mg eyes-rabbit; 40 percent eyes-rabbit
TOXICITY DATA:
200 ppm/4 hour(s) inhalation-rat LC50; 470 mg/kg oral-rat LD50
LOCAL EFFECTS:
Corrosive: inhalation, skin, eye, ingestion
ACUTE TOXICITY LEVEL:
Toxic: inhalation, ingestion
TUMORIGINIC DATA: Available.

2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE:
IRRITATION DATA:
5 gm skin-guinea pig mild; 1 percent/3 week(s)-intermittent skin-human mild
TOXICITY DATA:
>5.3 mg/l/6 hour(s) inhalation-rat LC50; >20 ml/kg skin-guinea pig LD50; >3.2 gm/kg oral-rat LD50
ACUTE TOXICITY LEVEL: Insufficient Data.

HYDROGEN PEROXIDE:
IRRITATION DATA:
1 mg eyes-rabbit severe
TOXICITY DATA:
2000 mg/m3 inhalation-rat LC50; 9200 mg/kg skin-rabbit LD50; 75 mg/kg oral-rat LD50
CARCINOGEN STATUS: IARC: Human No Adequate Data, Animal Limited Evidence, Group 3; ACGIH: A3 -Animal Carcinogen
LOCAL EFFECTS:
Corrosive: inhalation, skin, eye, ingestion
ACUTE TOXICITY LEVEL:
Highly Toxic: inhalation
Toxic: ingestion
Slightly Toxic: dermal absorption
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: eye disorders, respiratory
disorders, skin disorders and allergies

**TUMORIGENIC DATA:** Available.

**MUTAGENIC DATA:** Available.

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**12. ECOLOGICAL INFORMATION**

Not available

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**13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D003.

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**14. TRANSPORT INFORMATION**

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

**PROPER SHIPPING NAME:** Corrosive liquids, n.o.s. (HYDROGEN PEROXIDE, 2-BUTANONE PEROXIDE)

**ID NUMBER:** UN1760

**HAZARD CLASS OR DIVISION:** 8

**PACKING GROUP:** II

**LABELING REQUIREMENTS:** 8

**CANADIAN TRANSPORTATION OF DANGEROUS GOODS:**

**SHIPPING NAME:** Corrosive liquid, n.o.s. (HYDROGEN PEROXIDE, 2-BUTANONE PEROXIDE)

**UN NUMBER:** UN1760
CLASS: 8  
Packing Group/Risk Group: II

15. REGULATORY INFORMATION

U.S. REGULATIONS:
CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):
2-BUTANONE PEROXIDE: 10 LBS RQ  
DIMETHYL PHTHALATE: 5000 LBS RQ

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):
HYDROGEN PEROXIDE (GREATER THAN 52%): 1000 LBS TPQ

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40):
HYDROGEN PEROXIDE (GREATER THAN 52%): 1000 LBS RQ

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):
ACUTE: Yes  
CHRONIC: No  
FIRE: Yes  
REACTIVE: Yes  
SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65):
DIMETHYL PHTHALATE

OSHA PROCESS SAFETY (29CFR1910.119):
2-BUTANONE PEROXIDE: 5000 LBS TQ (>60%)
HYDROGEN PEROXIDE (GREATER THAN 52%): 7500 LBS TQ
STATE REGULATIONS:
California Proposition 65: Not regulated.

CANADIAN REGULATIONS:
WHMIS CLASSIFICATION: B3, D1A, E.

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): Not determined.

16. OTHER INFORMATION

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