



MATERIAL SAFETY DATA SHEET

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: KRAZY GLUE COLOR CHANGING GLUE

TRADE NAMES/SYNONYMS:

US: KG588; KG988

Canada: 10588; 10988

PRODUCT USE: adhesives

CREATION DATE: Oct 22 2004

REVISION DATE: Aug 26 2005

2. COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: ETHYL CYANOACRYLATE

CAS NUMBER: 7085-85-0

PERCENTAGE: >70

COMPONENT: AMORPHOUS SILICA FUME

CAS NUMBER: 69012-64-2

PERCENTAGE: 5-10

3. HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=2 FIRE=2 REACTIVITY=1

EMERGENCY OVERVIEW:

COLOR: various colors



ODOR: irritating odor

MAJOR HEALTH HAZARDS: skin irritation, eye irritation, harmful if swallowed, harmful on contact with the skin

PHYSICAL HAZARDS: Combustible liquid and vapor. May polymerize. Containers may rupture or explode.

POTENTIAL HEALTH EFFECTS:

INHALATION:

SHORT TERM EXPOSURE: irritation, allergic reactions, lung congestion

LONG TERM EXPOSURE: irritation, lung damage

SKIN CONTACT:

SHORT TERM EXPOSURE: irritation, allergic reactions

LONG TERM EXPOSURE: irritation

EYE CONTACT:

SHORT TERM EXPOSURE: irritation, eye damage, tearing

LONG TERM EXPOSURE: irritation

INGESTION:

SHORT TERM EXPOSURE: no information on significant adverse effects

LONG TERM EXPOSURE: no information is available

4. FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

SKIN CONTACT: 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.

EYE CONTACT: If bonding to tissues occurs, wash with large amounts of warm water. Cover both eyes with sterile, dry 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 a large amount is swallowed, get medical attention.

NOTE TO PHYSICIAN: Mineral oil, vegetable oil, or petroleum jelly may help soften the bonding between skin surfaces. For skin contact, consider acetone or nitromethane.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Moderate fire hazard. 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: 181 F (83 C) (CC)
AUTOIGNITION: 905 F (485 C)
FLAMMABILITY CLASS (OSHA): IIIA

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

STORAGE: Store and handle in accordance with all current regulations and standards. Store in a cool, dry place. Avoid contact with water or moisture. Keep away from heat, sparks and flame. Keep container tightly closed. 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: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not cut, puncture, or weld on or near this container.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS:

ETHYL CYANOACRYLATE:

0.2 ppm ACGIH TWA

AMORPHOUS SILICA FUME:

20 mppcf OSHA TWA

0.8 mg/m³ OSHA TWA (80 mg/m³ divided by %SiO₂)

2 mg/m³ ACGIH TWA (respirable particulate)

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.

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 dust, mist, and fume respirator.

Any air-purifying respirator with a high-efficiency particulate filter.

Any powered, air-purifying respirator with a dust, mist, and fume filter.

Any powered, air-purifying respirator with a high-efficiency particulate filter.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: liquid

COLOR: various colors

ODOR: irritating odor

BOILING POINT: 144 F (62 C) @ 5 mmHg

FREEZING POINT: <-4 F (<-20 C)

VAPOR PRESSURE: 0.13 mmHg @ 20 C

VAPOR DENSITY (air=1): >1

SPECIFIC GRAVITY (water=1): 1.09

WATER SOLUBILITY: negligible

PH: Not available

VOLATILITY: Not available

ODOR THRESHOLD: Not available

EVAPORATION RATE:

<1 (butyl acetate=1)>**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not available

10. STABILITY AND REACTIVITY

REACTIVITY: May polymerize. Avoid contact with water or moisture. Avoid contact with light.

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. Avoid contact with water or moisture.

INCOMPATIBILITIES: water, alcohols, bases, amines

HAZARDOUS DECOMPOSITION:

Thermal decomposition products: oxides of carbon

POLYMERIZATION: May polymerize. Avoid contact with water or moisture.

11. TOXICOLOGICAL INFORMATION

ETHYL CYANOACRYLATE:

TOXICITY DATA:

0.22 ml/kg skin-rabbit LD50; 0.18 ml/kg oral-rat LD50

LOCAL EFFECTS:

Irritant: skin, eye

ACUTE TOXICITY LEVEL:

Toxic: dermal absorption, ingestion

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: eye disorders, respiratory disorders, skin disorders and allergies

AMORPHOUS SILICA FUME:

CARCINOGEN STATUS: IARC: Human Inadequate Evidence, Animal Inadequate Evidence, Group 3 (Amorphous silica)

12. ECOLOGICAL INFORMATION

Not available

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

U.S. DOT 49 CFR 172.101:

PROPER SHIPPING NAME: Combustible liquid, n.o.s. (ETHYL CYANOACRYLATE)

ID NUMBER: NA1993

HAZARD CLASS OR DIVISION: Combustible liquid

PACKING GROUP: III

LABELING REQUIREMENTS: None



CANADIAN TRANSPORTATION OF DANGEROUS GOODS: No classification assigned.

15. REGULATORY INFORMATION

U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.

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: No

FIRE: Yes

REACTIVE: No

SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65): Not regulated.

OSHA PROCESS SAFETY (29CFR1910.119): Not regulated.

STATE REGULATIONS:

California Proposition 65: Not regulated.

CANADIAN REGULATIONS:

CONTROLLED PRODUCTS REGULATIONS (CPR): This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS CLASSIFICATION: B3, 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/NDL): All components of this product are listed on the DSL.

16. OTHER INFORMATION

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