



# Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910. 1200. Standard must be consulted for specific requirements.

## QUICK IDENTIFIER

COMMON NAME : (used on label and list)

KROXX NAIL GLUE

## SECTION 1 - COMPANY IDENTIFICATION

Manufacturer's Name KROXX INC.

Address

526-6 UNU BLDG 3FL 526-6 DEUNGCHONDONG,  
KANGSOGU, SEOUL 157-836, KOREA

Emergency

Telephone No. 82-2-2652-1311

City, State, and ZIP

Other Information

Calls ditto

Signature of Person

Date

Responsible for preparation (Optional)

Prepared

Dec. 21, 2005

## SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENT

Ingredients	CAS Registry No.	Chemical Formula	OSHA PEL	ACGIH TVL	Other Exposure Limits	% (Optional)
Alkyl 2-cyanoacrylate	7085-85-0	$\text{CH}_2(\text{CN})\text{CCOOC}_2\text{H}_5$	None	0.2ppm TWA	None	86-94
Polymethyl methacrylate	9011-14-7	secret	None	Not listed	None	6-14
Stabilizer	secret	secret	None	Not listed	None	below 1%

## SECTION 3 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Vapor is irritating to eyes, skin and mucous membranes and respiratory tract.

### POTENTIAL HEALTH EFFECT

May cause sensitization by inhalation. Narcotic effects, headache, dizziness, vomiting

Skin: dryness

Eye: irritation

POTENTIAL ENVIRONMENTAL EFFECTS: Not available

Signs and symptoms of exposure

Vapor is irritating to eyes and mucous membranes above TLV

Prolonged and repeated overexposure to vapors may produce symptoms of non-allergic asthma in sensitive individuals.

Existing conditions aggravated by exposure: Unknown

Ingredient

Literature Referenced

Carcinogen

Target organ and other health effects

NTP

IARC

OSHA

Alkyl 2-cyanoacrylate

ALG

IRR

RES

NO

NO

NO

N/A

Not applicable

IRR

irritant

ALG

Allergen

RES

Respiratory

### POTENTIAL CHEMICAL AND PHYSICAL EFFECT:

Polymerized by water, alcohol, amines and alkaline substance. Produce heat when polymerized.

## SECTION 4 - FIRST AID MEASURE

Ingestion: Ingestion is not likely. See supplemental page for emergency procedures.

Inhalation: Evacuate from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician.  
If the breath has stopped, have artificial respiration. If breathing difficulty occurs, have oxygen inhalation.

Skin Contact: Remove contaminated clothing. Wash contact areas with soap and much water.

Eye Contact: Flush thoroughly with fresh water for at least 15 min. Get medical assistance immediately

## SECTION 5 - FIRE FIGHTING MEASURE

Flash Point (Method Used)

Flammable Limits

LEL

UEL

Cleveland open cup 80 °C <

Not determined

N/A

N/A

Recommended Extinguishing agents: Carbon dioxide, form, dry chemical

Special Fire Fighting Procedures: To prevent a possible health hazard, wear a self-contained breathing apparatus.

Hazardous products formed by fire or thermal decomposition: Irritating organic fragments

Unusual fire and Explosion hazards: None

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

Evacuate non essential personnel

Shut off all sources of ignition: No fires, smoking or flames in area

Do not wipe off large quantities by cloth. Polymerization may occur rapidly, which may produce heat and irritating smoke.

Ventilate area after material pick up is completed.

For small spills: Absorb spill with inert material (dry cloth, dry sand), then place in a chemical waste containers using non-sparking tools.  
Flush residual spill (area) with plenty of water.

For large spills: Dike for later disposal. Wash with plenty of water.

## SECTION 7 - HANDLING AND STORAGE

HANDLING: Keep away from sources of ignition and heat. No smoking or flames in working area.

Take precautionary measures against static discharges.

Avoid contact with skin and eyes

Wear proper protective equipment.

Use only in well ventilated areas.

Use exhaust ventilation to keep air concentration below exposure limit.

Keep container tightly closed when not in use.

Install emergency showers and eye wash facility in working area.

Storage: Keep away from all possible source of ignition.

Store in cool, dry, well ventilated location.

Keep container tightly closed.

Keep away from combustible materials, heat, steam pipe, UV-sunlight.

Keep away from oxidizing materials.

Other precautions: Wash hands, face and gargle after work.

Practice good personal hygiene after using this material, especially before eating, drinking, smoking or using the rest room.

Keep out of reach of children.

## SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

Respiratory protection (Specify type): Chemical cartridge respirator with organic vapor

Ventilation	Local exhausts Should be used to control vapors in work area	Special
	Mechanical (General) Should use a breathing mask	Other

Protective gloves: Polyethylene gloves, no rubber

Eye protection: safety glasses, face shield

Skin protection: Other protective clothing or equipment impervious clothing; apron, boots, barrier creams, and etc.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pink liquid

Odor: Sharp, irritating

Boiling point: Above 190 °C

Freezing point: -29.5 °C

Specific gravity (H<sub>2</sub>O=1) 0.9~1.1

Vapor Pressure (at 25 °C): 1Pa

Vapor Density (Air=1): 4.5

Evaporation rate (Butyl acetate=1) N/A

Solubility in water: Insoluble (polymerized by water)

## SECTION 10 - STABILITY AND REACTIVITY

Condition to avoid: high humidity, high temperature, or direct sunlight.

Stability: Stable (cool and dry area)

Material to avoid: Polymerized by contact with water, alcohol, amines, and alkalies.

Hazardous decomposition or byproducts: CO<sub>2</sub>, oxide, and nitrogen and unknown hydrocarbons.

## SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicity: Skin contact may cause burns.  
Bond skin rapidly and strongly  
Skin and eye irritant  
ORAL LD<sub>50</sub>: 67600mg/kg in rat. (Acute)

Routes of Entry: Inhalation (Yes)  
Skin (Yes)  
Ingestion (Yes)

Carcinogen etc. (See section 3)

## SECTION 12 - ECOLOGICAL INFORMATION

No data available

## SECTION 13 - DISPOSAL INFORMATION

Waste disposal method

Do not pour into drain. Follow domestic and local environmental regulations.

Precautions to be taken in handling and storing.

Avoid unnecessary exposure to air and moisture. Do not store above 25 °C and under direct sunlight..

Keep container lids tightly closed.

Other precautions:

Avoid contact with skin and eyes. Protect eyes, skin and clothing from contact with material. Wear recommended equipment.

## SECTION 14 - TRANSPORT INFORMATION

CLASS: Unlisted

UN Number: Unlisted

## SECTION 15 - REGULATORY INFORMATION

CA Proportion 65: No California proposition 65 chemicals are known to be present.

## SECTION 16 - OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 2

Fire Hazard: 2

Reactive Hazard: 1

Special hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 2

Flammability Hazard: 2

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