

MATERIAL SAFETY DATA SHEET

Identity (As used on label):

Re-Mark-Able Markers

SECTION I

Manufacturer's Name: Quartet Manufacturing Co.	Emergency Telephone Number: (708) 965-0600
Address (Number, Street, City, State and Zip Code): Quartet Plaza 5700 Old Orchard Road Skokie, IL 60077	Telephone Number for Information: (708) 965-0600
	Date Prepared: January 19, 1995
	Signature of Preparer (optional):

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components: (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limit Recommended	% (optional)
Methyl Isoburyl Ketone	CAS#1080-10-1	TWA 50ppm, STEL 75ppm; ACIGH		45 - 60
n-butyl acetate	CAS#123-86-4	TWA 150ppm, STEL 200ppm; ACIGH		20 - 30
Additives & release agents				5 - 10
Vinyl resins				2 - 5
Pigments				2 - 5

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 235-245°F (for methyl isoburyl ketone)	Specific Gravity (H <sub>2</sub> O = 1): 0.84 to 0.87
Vapor Pressure (mm Hg): 10-16 at 20°C	Melting Point: N.A.
Vapor Density (Air = 1): 3.5 to 4.0	Evaporation Rate (Butyl Acetate = 1): 1.0 to 1.6
Solubility in Water: Negligible	
Appearance and Odor: Colored liquid, Ketone like odor.	

Medical Conditions Generally Aggravated by Exposure:

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Emergency and First Aid Procedures:

Eye contact: Flush with large amounts of water, get medical attention. Skin contact: Wash with soap & water, wash clothing before reuse. Ingestion: Do not induce vomiting. Get medical attention. Inhalation: Remove to fresh air. Get medical attention if symptoms persist.

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SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled:

Absorb in paper or other absorbent material and transfer to hood.

Waste Disposal Method:

Allow volatile material to evaporate in hood, dispose of remaining material as solid waste.

Precautions to Be Taken in Handling and Storage:

N.A.

Other Precautions:

None

SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specify Type): If TLV's are exceeded, a NIOSH/MSHA jointly approved air supplied respirator is advised.

Ventilation: General or local to maintain exposures below recommended TLV's.

Local Exhaust:

Special:

Mechanical(General):

Other:

Protective Gloves:

Eye Protection: OSHA approved

Chemically resistant gloves

goggles for splash protection.

Other Protective Clothing or Equipment:

Work/Hygienic Practices:

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## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 60°F (TCC) for methyl isobutyl ketone	Flammable Limits: LEL: UEL:
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## Extinguishing Media:

Alcohol foam, water fog, carbon dioxide, or dry chemical.

## Special Fire Fighting Procedures:

Wear self-contained breathing apparatus with a full facepiece operated in a positive pressure mode.

## Unusual Fire and Explosion Hazards:

Heavier than air vapors.

## SECTION V - REACTIVITY DATA

Stability: Stable (x) Unstable ( )	Conditions to Avoid:
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## Incompatibility (Materials to Avoid):

Avoid contact with strong oxidizing agents.

## Hazardous Decomposition or Byproducts:

None known.

Hazardous Polymerization: May Occur ( ) Will Not Occur (X)	Conditions to Avoid:
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## SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
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## Health Hazards (Acute and Chronic):

Not known, Oral LD<sub>50</sub> (rats) greater than 2.5 g/kg.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
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## Signs and Symptoms of Exposure:

(Not established but inferred from information supplied for each of the ingredients)

Skin: Prolonged contact can cause moderate irritation. Ingestion: Can cause gastrointestinal irritation, nausea, vomiting, diarrhea. Eye: Can cause severe irritation, redness, tearing, blurring vision. Inhalation: Excessive inhalation can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.