

MATERIAL SAFETY DATA SHEET

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I. IDENTIFICATION

CHEMICAL FAMILY: TISSUE RESTORATIVE - LACQUER BASE - MIXTURE

TRADE NAME: TISSUE FILLER - LIQUID TYPE **PRODUCT NUMBER:** 20020

II. HAZARDOUS INGREDIENTS

| INGREDIENT NAME | CAS # | % | OSHA PEL | AGCIH TLV |
|-----------------|-----------|------|-------------------------|-------------------------|
| | | | TWA;STEL(15) | TWA;STEL(15) |
| METHANOL | 67-56-1 | 95.7 | 200ppm;250ppm (Skin) | 200ppm;250ppm (Skin) |
| ISOPROPANOL | 67-63-0 | 1.3 | 400ppm;500ppm | 400ppm;500ppm |
| Nitrocellulose | 9004-47-0 | 3.0 | None Established | None Established |

III. PHYSICAL DATA

| | | | |
|----------------------------------|------------------------|---------------------------------------|-------|
| BOILING POINT (At 760mm Hg) (°F) | 145 – 185 | SPECIFIC GRAVITY (H ₂ O=1) | 0.800 |
| VAPOR PRESSURE (mm Hg) | 96 | MELTING POINT °F | N/A |
| VAPOR DENSITY (Air=1) | 1 | EVAPORATION RATE (Butyl Acetate=1) | 3.5 |
| SOLUBILITY IN WATER | Insoluble | PERCENT VOLITILE | 97.0 |
| APPEARANCE & ODOR | Clear Pale Pink Liquid | | |

IV. FIRE AND EXPLOSION DATA

FLAMMABLE LIMITS IN AIR

FLASH POINT °F (Tag Closed Cup): 53

Lower: 2.3%

Upper: 36.5%

Extinguishing Media: "Alcohol" Foam; Dry Chemical; Carbon Dioxide. Water may be ineffective.

FLAMMABLE LIQUID: CLASSIFICATION - Lacquer Base UN-1263

VI. HEALTH HAZARD DATA

EYE CONTACT: May cause eye injury which may persist for several days. Liquid and vapor in high concentrations, causes irritation, tearing and burning sensation.

SKIN CONTACT: Essentially non-irritating. Repeated or prolonged contact causes drying, brittleness, cracking and irritation.

INHALATION: Extremely high levels cause stupor, headache, nausea, dizziness and unconsciousness.

INGESTION: Poisonous if swallowed. Can affect the optic nerve resulting in blindness. Can cause mental sluggishness, nausea and vomiting leading to severe illness, possibly death (in humans).

| HMIS RATINGS | |
|--------------|---|
| HEALTH | 1 |
| FIRE | 2 |
| REACTIVITY | 0 |
| SPECIAL | 0 |

EMERGENCY AND FIRST AID:

EYE CONTACT: Flush eyes with water for at least 15 minutes. Contact a physician immediately.

SKIN CONTACT: Remove contaminated clothing and wash contaminated skin with large amounts of water. If irritation persists, call a physician.

INHALATION: Remove to fresh air. If not breathing give artificial respiration, then oxygen if necessary. Call a physician.

INGESTION: Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Immediately call a physician.

VII. SPILL AND DISPOSAL INFORMATION

SPILL OR LEAK: Ventilate area thoroughly - avoid breathing of vapor. Absorb liquid with vermiculite or dry earth. Flush area with plenty of water.

WASTE DISPOSAL: Dispose of residue in compliance with Federal, State and local regulations.

VII. REACTIVITY DATA:

STABILITY: Stable---**Yes** Unstable--No

Materials and conditions to avoid: Caustics and strong oxidizing agents. High Temperatures.

Hazardous Polymerization: May Occur--No **Will Not Occur--X**

Hazardous Decomposition Products: Hydrogen, Formaldehyde, Carbon Monoxide, Carbon Dioxide.

VIII. PROTECTION INFORMATION:

Respiratory Protection: Ventilation should be adequate to keep exposure limits below indicated limits. If limits are exceeded, a full-face NIOSH approved respirator should be used.

Ventilation: Local exhaust should be adequate to control exposure.

Eye Protection: Gas proof Goggles and Face Shield recommended.

Protective Gloves: Neoprene, Butyl or Polyvinyl Gloves.

IX. SPECIAL PRECAUTIONS:

Keep containers closed. Store in cool, well ventilated area away from open flame. Do not breath vapor. Avoid prolonged or repeated contact with skin. Wash thoroughly with soap and water after handling.

X. This mixture contains toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

| | | | | |
|----------|------------|---------|---------------------|-------------|
| Methanol | CAS number | 67-56-1 | Reportable Quantity | 5000 pounds |
|----------|------------|---------|---------------------|-------------|

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