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MATERIAL SAFETY DATA SHEET

SECTION I

Product Name: Kovac Solution
Size: 100ml, 500ml
Chemical name: none
Formula: p-Dimethylaminobenzaldehyde..5g
 tert-Butyl alcohol.....75.0ml
 Hydrochloric acid.....25.0ml
Manufacturer: Carolina Biological Supply Company
Address: 2700 York Road
 Burlington, NC 27215
For Information on Health Hazards Call: For Other Information Call:
919-584-0381
Date: 11/26/85

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Components (%): tert-Butyl alcohol 71%,
Hydrochloric acid 24%
TLV (Units): LDLo 500mg/Kg; tert-Butyl alcohol Oral Rat LD50
3500mg/Kg, 100ppm; Hydrochloric acid inh-hmn LCLo 1000ppm/1M, 5ppm.

SECTION III PHYSICAL DATA

Boiling Point (F.): no information
Vapor Pressure (mm Hg.): no information
Vapor Density (Air=1): no information
Specific Gravity (H2O=1): no information
Percent Volatile By Volume (%): 95%
Evaporation Rate (=1): no information
Solubility in Water: slight
Appearance and Odor: Clear liquid with alcoholic odor.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 10C (TCC) (tert-butyl alcohol)
Extinguisher Media: Alcohol foam, dry chemical, carbon dioxide.
Flammable Limits in Air % by Vol.: 2.4 - 8 (tert-butyl alcohol)
Autoignition Temperature: 892 F (tert-butyl alcohol)
Special Fire Fighting Procedures: Respiratory protection required if in
confined space.
Unusual Fire and Explosion Hazards: Dangerous when exposed to heat or
flame; can react with oxidizing materials.

SECTION VI HEALTH HAZARD DATA

Threshold Limit Value: See Section II
Effects of Over exposure: Causes burns. Corrosive by liquid or fume
contact. Irritant to respiratory passages. Vapor is narcotic in
action. Inhalation may cause severe pulmonary edema.
Acute Overexposure: no information
Chronic Overexposure: no information
Emergency and First Aid Procedures: Get immediate medical attention for

all cases of overexposure.

Inhalation: Remove to fresh air. Give artificial as required. Consult a physician.

Eyes: Flush thoroughly with water for at least 15 minutes holding lids apart. Consult a physician.

Skin: Flush thoroughly with water for at least 15 minutes. Consult a physician.

Ingestion: Do NOT induce vomiting; drink milk or water if conscious. Consult a physician.

SECTION VI REACTIVITY DATA

Stability:

stable

Conditions to Avoid: Heat, sparks, and open flame.

Incompatibility (Materials to Avoid): Oxidizers, alkalies, metals, metal oxides, amines, carbonates

Hazardous Decomposition Products: toxic hydrogen chloride gas

Hazardous Polymerization:

will not occur

Conditions to Avoid:

SECTION VII SPILL OR LEAK PROCEDURES

Steps to Be Taken In Case Material is Released or Spilled: Eliminate all sources of ignition. Cover the spill with vermiculite or another absorbent. then sprinkle a soda ash/slaked mixture, or another suitable neutralizer, over the spill to neutralize it. When neutralized and sufficiently absorbed, scoop into plastic bags and dispose of properly.

Waste Disposal Method: Incinerate in accordance with Federal, State and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): Fume hood, face shield

Ventilation:

Local Exhaust: X

Mechanical (general):

Special:

Other:

Protective Gloves: Protective gloves

Eye Protection: splash-proof, vapor-proof goggles, do not wear contact lenses

Other Protective Clothing or Equipment: Lab coat/apron, eye wash, safety shower

SECTION IX SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Store in a moderate temperature (material may freeze below 77F), well-ventilated area separated from incompatible materials. Keep container closed when not in use.

Other Precautions: no information

Date Issued: 11/27/85

Approved by:

Mary Ann Frost