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13401-XXXX

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MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

Description: Resin-impregnated paper product. Poses no unique hazard. Free formaldehyde can be emitted from the product in trace amounts.

HAZARDOUS

Components: Condensed urea-formaldehyde based polymeric resin which when fully polymerized is essentially innocuous. Free formaldehyde can be emitted in trace amount.

CAS Number: 9011-05-6 for urea-formaldehyde resin.
 50-00-0 for free formaldehyde gas.

Percentage: Formaldehyde is present in trace amounts, less than 0.1% by weight.

Exposure: No Permissible Exposure Limit has been established by OSHA for urea-formaldehyde resin.

OSHA PEL: 1 ppm 8-hr TWA
 2 ppm 8 STEL
 ACGIH TLV: 1 ppm 8-hr TWA
 2 ppm 8 STEL

HEALTH EFFECTS INFORMATION

Eye Contact: Irritant, may cause tearing at concentrations above 1 ppm. Effect is immediately reversible when exposure is terminated. Hypersensitive individuals may experience symptoms at concentrations lower than 1 ppm.

V-3140

Inhalation: Exposures of 1 ppm and above may cause upper respiratory tract irritation. Irritation is reversible when exposure is terminated. Hypersensitive individuals may experience symptoms at concentrations below 1 ppm. Formaldehyde is listed by the International Agency for Research on Cancer (IARC) as an animal carcinogen and the National Toxicology Program Annual Report on Carcinogens (NTP) as a potential human carcinogen.

EMERGENCY AND FIRST AID

Eye: Remove affected individual to fresh air.

Inhalation: Remove affected individual to fresh air.

Ingestion: Not applicable.

PHYSICAL DATA

Boiling Point: -19.5°C

Specific Gravity: Not Applicable

Vapor Density: 1.067 (air=1)

% Volatiles by Volume: Not Applicable

Melting Point: -92°C

Vapor Pressure: Not Applicable

Solubility in H₂O (%/wt): Very Soluble

Evap Rate (Butyl Acetate=1): Not Applicable

pH: Neutral to slightly acidic.

Appearance & Odor: Clear gas with characteristic odor that can be sensed by irritation of the mucous membranes and eyes at concentrations above 1 ppm.

FIRE AND EXPLOSION DATA

The fire hazards associated with this product are those known to exist for normally combustible paper products. The formaldehyde constituent of this product should not increase the fire or explosive hazard or alter firefighting procedures.

Extinguishing Media: Water, fog, CO₂, dry chemical

Special Fire Fighting Methods: None

Unusual Fire/Explosion Hazard: None

REACTIVITY

Conditions Contributing to Instability: Heat and Moisture can result in increased rates of formaldehyde off-gassing.

Incompatibility: None

Hazardous Decomposition Products: None

Conditions Contributing to Hazardous Polymerization: Heat and Moisture will affect the polymerization process and potentially increase the rate of formaldehyde off-gassing.

**PRECAUTIONS/
SAFE
HANDLING** Store in well ventilated area.

If workers experience irritation during unloading, allow shipping vehicles to ventilate before unloading. Keep the vent holes of vehicles open during transit. If a hot and humid environment is involved, ensure that the storage area is kept well ventilated. Boxes should not be stored in unventilated confined areas.

**CONTROL
MEASURES** General ventilation is normally all that is required unless the product is subjected to hot and humid conditions.

If the environment is hot and humid, local exhaust ventilation is the most effective means of controlling vapor buildup. Normally, general ventilation should provide adequate protection.

A few excessively sensitive individuals may experience irritation of the eyes and upper respiratory tract at very low levels in which case a NIOSH approved full face piece chemical cartridge respirator for formaldehyde may be needed.

**SPILL
AND LEAK
CLEAN-UP
PROCEDURES** Not Applicable.