

**Material Safety Data Sheet**

5 Pages

**I. Product Identification**

Manufacturer's Name <b>KIMBERLY-CLARK CORPORATION MUNISING MILL</b>		Emergency Telephone No. <b>(906) 387-2700</b>
Address <b>501 East Munising Ave., Munising, MI 49862</b>		
Chemical Name and Synonyms <b>Mixture</b>		CAS No./UN No. <b>N/A</b>
Trade Name and Synonyms <b>BACKER SHEET</b>		
Chemical Family <b>Cellulose, Synthetic Polymer Composite</b>		Formula <b>Proprietary</b>
Shipping Name: DOT: <b>Non-Hazardous</b>		IATA:

**II. Hazardous Ingredients**

Material or Component	CAS No./UN No.	%	Hazard Data
Formaldehyde (A by-product of the manufacturing process, normally crosslinked but can be released upon certain processing conditions)	50-00-0	< 0.2	TWA = 0.75 ppm STEL = 2.0 ppm Action Level = 0.5 ppm (8 hr. TWA)

**III. Physical Data**

Boiling Point <b>N/A</b>	Melting Point <b>N/A</b>
Specific Gravity (H <sub>2</sub> O=1) <b>0.4 - 0.8</b>	Vapor Pressure <b>N/A</b>
Vapor Density (Air = 1) <b>N/A</b>	Solubility in H <sub>2</sub> O, % by wt. <b>Less than 0.1%</b>
% Volatiles by Vol. <b>Less than 0.1%</b>	Evaporation Rate (<0.1 =1) <b>N/A</b>
Appearance and Odor <b>Manufactured paper article, insig. odor</b>	pH (as is)      pH at      Dilution <b>N/A</b>

**IV. Fire and Explosion Data**

Flash Point (Test Method) <b>None</b>	Auto Ignition Temp. <b>&gt;200°F</b>	Flammable Limits in Air, % by Vol.: Lower: Upper:
Extinguishing Media <b>Water, CO<sub>2</sub>, Dry Chemicals</b>		
Special Fire Fighting Procedures <b>NONE</b>		
Unusual Fire and Explosion Hazard <b>NONE</b>		

V. Health Hazard Information

Health Hazard Data	Hazard Classification	Basis for Classification	Source
<p>Routes of Exposure Inhalation</p>	<p>Trace amounts of formaldehyde vapors may be released upon certain heat processing conditions. Formaldehyde vapors are irritating to the eyes, skin, mucus membranes, respiratory tract. Repeated and excessive exposure to formaldehyde vapors can cause respiratory sensitization in some individuals. Excessive exposure to formaldehyde vapors creates a cancer risk to the respiratory systems of humans (based on animal testing).</p>		<p>OSHA 29 CFR 1910.1048</p>
<p>Skin Contact</p>	<p>Under normal conditions, skin contact of product has not been reported to elicit a response. Prolonged or repeated skin contact with formaldehyde solutions may cause some people to develop allergic rashes or other skin disorders.</p>		
<p>Skin Absorption</p>	<p>No exposure or adverse effects from available data on product.</p>		
<p>Eye Contact</p>	<p>Direct contact may cause eye irritation.</p>		
<p>Ingestion</p>	<p>No evidence of adverse effects from available data on product.</p>		

**VI. Reactivity Data****Conditions Contributing to Instability**

None known

**Incompatibility (Materials to Avoid)**

None known

**Hazardous Decomposition Products**

Processing of this product may cause release of formaldehyde vapors under conditions of heat and pressure. These levels may exceed exposure concentrations of TWA of 0.1 ppm.

**Conditions Contributing to Hazardous Polymerization**

Not known

**VII. Spill or Leak Procedures****Steps to be Taken if Material is Released or Spilled**

N/A

**Neutralizing Chemicals**

N/A

**Waste Disposal Method of Spill or Leak**

N/A

**VIII. Special Protection Information****Ventilation Requirements**

Maintain adequate ventilation under conditions of use to prevent exposure above the current OSHA limits. It is recommended that workplace monitoring of the air be instituted to define formaldehyde exposure levels.

**Specific Personal Protective Equipment****Respiratory (Specify in Detail)**

Where respiratory protection is required, approved respirator for formaldehyde gas exposure (see 29 CFR 1910.1048(g)).

**Eye**

Where eye protection is required, approved safety glasses.

**Gloves**

Where dermal exposure is expected, appropriate protection of exposed areas should be covered.

**Other Clothing and Equipment**

N/A

Effects of Overexposure

Acute Overexposure

None reported for product.

Chronic Overexposure

None reported for product.

Emergency and First Aid Procedures

Eyes

Immediately flush eyes with water.

Skin

No harmful effects anticipated.

Inhalation

Ingestion

No harmful effects anticipated.

Notes to Physician

[Empty box for notes to physician]

**IX. Special Precautions**

**Labeling Information and Warnings**

**Danger**  
Formaldehyde  
Irritant and Potential Cancer Hazard  
Avoid Inhalation and Skin Contact.

**Data for Hazardous Information Label**

<u>Hazard Code</u>	<u>Flammability</u>	1
4 = Extreme	<u>Reactivity</u>	0
3 = High	<u>Health</u>	3
2 = Moderate	<u>Special</u>	N/A
1 = Slight		
0 = Insignificant		

**Other Handling and Storage Requirements**

Storage of material should be kept in a well ventilated area.

**X. Disposal**

**Waste Disposal Method**

Dispose of product in accordance with local, state and federal regulations.

**Aquatic Toxicity (eq. 96 hr TLM):**

**XI. Government Regulations**

**References to Applicable Government Regulations**

Federal  
OSHA 1910.1048

State  
Pennsylvania  
Massachusetts  
California

Other

**Regulation Highlights**

Formaldehyde exposure levels, mandatory and employee notification.

A special hazardous substance greater than 0.01%.  
Extraordinary hazardous substance greater than 1 ppm.  
A substance listed by California under the "Safe Drinking Water and Toxic Enforcement Act of 1986" (Prop. 65).

**Prepared By**

S. B. Montgomery, Ph.D.

**Company**

Kimberly-Clark Corporation

**Address**

1400 Holcomb Bridge Road, Roswell, GA 30076

**Telephone Number (Area Code)**

(404) 587-8380

**Date Prepared**

12/15/93

**Latest Revision Date**