1. Product Identification
Synonyms: phenol formaldehyde moulding powder; Bakelite; Bakelite powder
CAS No.: ---

2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No</th>
<th>Percent</th>
<th>Hazardous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol Formaldehyde Resin, Novolac</td>
<td>9003-35-4</td>
<td>30</td>
<td>No</td>
</tr>
<tr>
<td>Methenamine</td>
<td>100-97-0</td>
<td>20</td>
<td>Yes</td>
</tr>
<tr>
<td>Wood Powder</td>
<td>--------</td>
<td>30</td>
<td>No</td>
</tr>
<tr>
<td>Additives</td>
<td>--------</td>
<td>20</td>
<td>No</td>
</tr>
</tbody>
</table>

3. Hazards Identification

Emergency Overview
CAUTION! MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

Health Rating: 1 - Slight
Flammability Rating: 1 - Slight
Reactivity Rating: 0 - None
Contact Rating: 0 - None
Lab Protective Equip: GOGGLES; LAB COAT
Storage Color Code: Orange (General Storage)

Potential Health Effects
Information on the human health effects from exposure to this substance is limited.
Inhalation: No information found, but compound should be handled as a potential health hazard.
Ingestion: No information found, but compound should be handled as a potential health hazard.
Skin Contact: May cause irritation with redness and pain.
Eye Contact: May cause irritation, redness and pain.
Chronic Exposure: No information found.
Aggravation of Pre-existing Conditions: No information found.

4. First Aid Measures
Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.
Ingestion: Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.
Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.
Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.
5. Fire Fighting Measures
Fire: As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.
Explosion: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.
Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures
Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

7. Handling and Storage
Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection
Airborne Exposure Limits: None established.
Ventilation System:
A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Respirators (NIOSH Approved):
For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
Skin Protection: Wear protective gloves and clean body-covering clothing.
Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties
Appearance: Black or colored powder
Odor: Odorless
Solubility: cannot be Soluble in water.
Specific Gravity: No information found.
\( \text{pH: Aqueous solution is neutral.} \)
\( \% \text{ Volatiles by volume @ 21C (70F): 0} \)
10. Stability and Reactivity
Stability: Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products: May produce carbon monoxide, carbon dioxide, nitrogen oxides and hydrogen chloride when heated to decomposition.
Hazardous Polymerization: Will not occur.
Incompatibilities: Strong oxidizers.
Conditions to Avoid: Heat, flames, ignition sources and incompatibles.

11. Toxicological Information
Oral rat LD50: 3400 mg/kg Investigated as a mutagen.

---NTP Carcinogen---
Ingredient                                Known    Anticipated    IARC Category
Phenol Formaldehyde Resin, Novolac       No        No            None
Methenamine                             No        No            None
Wood Powder                             No        No            None
Additives                               No        No            None

12. Ecological Information
Environmental Fate: No information found.
Environmental Toxicity: No information found.

13. Disposal Considerations
Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information
Not regulated.

15. Other Information
NFPA Ratings: Health: 1 Flammability: 1 Reactivity: 0
Label Hazard Warning: CAUTION! MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.
Label Precautions: Avoid breathing dust. Avoid contact with eyes, skin and clothing. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.
Label First Aid:
If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything
by mouth to an unconscious person. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. Get medical attention if irritation develops or persists.

Product Use: As feed additive

Revision Information: MSDS Section(s) changed since last revision of document include: 8.

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