

MATERIAL SAFETY DATA SHEET

Distributor

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Product identification

Product name: FRICTION PHENOLIC RESIN
CAS NO. 9003-35-4
Synonyms: friction materials phenolic resin
Formula: macromolecule polymer
Molecular weight: unspecified

Composition/information on ingredients

Macromolecule polymer.

Hazards identification

Inhalation: may cause a mild irritation temporarily via the nasal passages and throat, i.e. sneezing, scratchy throat from dust inhalation. No other symptoms known.
Skin & eye: may cause mechanical eye irritation and skin irritation to allergic persons.
Ingestion: ingestion is not known to be fatal unless massive quantities ingested.
Health hazards (acute & chronic): not likely to cause any significant acute or chronic effect..

First aid measures

Eyes: immediately flush with copious amounts of water for at least 15 min.
Skin: immediately wash with soap and copious amounts of water.
Inhalation: remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion: wash out mouth with water provided person is conscious

Fire fighting measures

Extinguishing media: water spray, dry chemical, carbon dioxide, foam.
Fire fighting procedures: fire fighters should wear self-contained breathing apparatus and protective equipment. Use water spray to cool fire-exposed surfaces.
Fire/explosion hazard: potential for dust explosions.

Accidental release measures

Spill release procedures: wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Handling and storage

Handling and storage precautions: avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Avoid inhalation. Keep tightly closed. Store away from heat.

Exposure controls/Personal protection

Respiratory protection: NIOSH/MSHA-approved respirator.
Ventilation: mechanical exhaust required.
Protective gloves: compatible chemical-resistant gloves.
Eye protection: chemical safety glasses.
Other protective equipment: safety shower and eye bath.
Work hygienic practices: wash hands thoroughly after handling.
Supplemental safety and health: none

Physical and chemical properties

Appearance: light yellow or pale reddish brown or white powder
Polymerization speed (Sec/150 deg C): 65 – 110
Mobility (mm): 25 - 50
Urotropine content: 8% - 10%
Free phenol content: 3.5% max
Fineness (pass 200 mesh): 95% min.

Stability and reactivity data

Stability : stable. avoid open flames, high temperature, electric arc. Prevent disperse of material in air to form dust-any finely divided org material in air can ignite dust explode.
Hazardous Decomposition Products: burning/thermo decomposition can produce phenol, formaldehyde, CO(highly toxic if inhale) and/or CO2(sufficient conce act as asphyxiant).

Toxicological information

Eyes: the fine particles and powder should be regarded as an inert, nuisance dust.
Oral: Oral LD50 (formaldehyde): rat 100mg/kg
Routes of exposure: the substance can be absorbed into the body by inhalation of fumes.
Acute effects/symptoms: inhalation of dusts or fumes causes asthmatic reactions.
Chronic effect: repeated or prolonged contact may cause skin sensitization. Repeated or prolonged inhalation exposure may cause asthma.

Ecological information

n/a

Disposal considerations

Waste disposal methods: dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local regulations.

Transport Information

Non-hazardous for air, sea and road freight.

Regulatory Information

Unspecified.

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