

MATERIAL SAFETY DATA SHEET**TAMOL[®] SN**

PRODUCT CODE NUMBER(S): CAL 1298

PRODUCT IDENTIFICATION

Chemical Name and Synonyms: *Tamol[®] SN*
Chemical Family: *Mixture*
Chemical Formula: *Mixture, not applicable*
Product Use: *Laboratory chemical*
Manufacturer's Name and Address:
Caledon Laboratories Ltd.
40 Armstrong Avenue
Georgetown, Ontario L7G 4R9
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HAZARDOUS INGREDIENTS OF MATERIALS

<i>Ingredients</i>	<i>%</i>	<i>TLV Units</i>	<i>CAS No.</i>
<i>Naphthalene- formaldehyde condensate sodium salt</i>	<i>~87</i>	<i>Not established</i>	<i>9084-06-4</i>
<i>Sodium sulphate</i>	<i>~8</i>	<i>Not established</i>	<i>7757-82-6</i>
<i>Formaldehyde</i>	<i><0.05</i>	<i>0.3 ppm</i>	<i>50-00-0</i>
<i>Water</i>	<i><7</i>	<i>Not established</i>	<i>7732-18-5</i>

PHYSICAL DATA

Physical State: *Solid*
Odour and Appearance: *Tan powder*
Odour Threshold (ppm): *Not applicable*
Vapour Pressure (mm Hg): *Not available*
Vapour Density (Air = 1): *Not available*
Evaporation Rate: *Not applicable*
Boiling Point (°C): *Not available*
Melting Point (°C): *Not available*
pH: *8.8 to 10.0 (2%, aqueous)*
Specific Gravity: *Not available*
Coefficient of Water/Oil distribution: *Not available*

SHIPPING DESCRIPTION

UN: *Not regulated*
T.D.G. Class: *Not regulated*
Pkg. Group: *Not regulated*

REACTIVITY DATA

Chemical Stability: *Stable under normal conditions of use and storage.*
Incompatibility with other substances: *May react vigorously or violently with strong oxidizers or acids. Will not polymerize.*
Reactivity: *Avoid excessive heat, generation of dust, all incompatible materials.*
Hazardous Decomposition Products: *None known.*

FIRE AND EXPLOSION DATA

Flammability: *Combustible if strongly heated. Burns with intense heat. As with most organic compounds, fine dust dispersed in air in the presence of an ignition source is a potential dust explosion hazard.*
Extinguishing Media: *Use an extinguisher appropriate to the surrounding material that is burning. Water spray can be used to cool containers, prevent dust formation, flush chemical away from fire. Fight fire from upwind, from a safe distance. Firefighters should wear protective equipment and clothing sufficient to prevent inhalation of dust or fumes, and contact with skin and eyes.*
Flash Point (Method Used): *Not applicable*
Autoignition Temperature: *Not applicable*

Upper Flammable Limit (% by volume): *Not applicable*
Lower Flammable Limit (% by volume): *Not applicable*
Hazardous Combustion Products: *Irritating, toxic smoke and fumes*
Sensitivity to Impact: *None*
Sensitivity to Static discharge: *As with most organic powders, mixtures of dust with air may be sensitive under certain conditions, when ignited by an electrostatic or other high-voltage spark, or other ignition source.*

TOXICOLOGICAL PROPERTIES AND HEALTH DATA**Toxicological Data:**

LD₅₀: *(oral, rat) 4,300 mg/kg; (dermal, rat)>2,000 mg/kg*
LC₅₀: *Not available*

Effects of Acute Exposure to Product:

Inhaled: *Mild irritant. May cause temporary coughing and sneezing. Inhalation of large amounts may be harmful.*
In contact with skin: *May cause irritation, with redness, itching, burning sensation.*
In contact with eyes: *Dust or solutions may cause irritation, with itching, redness, tearing.*
Ingested: *May cause irritation in the mouth, esophagus and stomach. Ingestion of large amounts may cause gastrointestinal irritation, with nausea, vomiting, diarrhea.*

Effects of Chronic Exposure to Product:

Carcinogenicity: *Formaldehyde is a suspected human carcinogen*
Teratogenicity: *None of the components has been listed as teratogenic by IARC, NTP, ACGIH, NIOSH.*
Reproductive Effects: *Some effects cited for formaldehyde*
Mutagenicity: *Formaldehyde was mutagenic in bacterial test, and in isolated human and animal cells (RTECS No. LP892500)*
Synergistic Products: *None known*

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PREVENTIVE MEASURES

Engineering Controls: Non-sparking, grounded exhaust ventilation

Respiratory Protection: Dust mask. NIOSH approved respirator with dust filter for dusty conditions. For higher or unknown concentrations, as in spill or fire conditions, supplied-air respirator or full face-piece positive-pressure self-contained breathing apparatus.

Eye Protection: Chemical safety glasses. Do not wear contact lenses when working with chemicals.

Skin Protection: Wear protective gloves and clean body-covering clothing, long-sleeved shirt, trousers, apron or lab coat.

Other Personal Protective Equipment: Eye bath and safety shower available and ready for use.

Leak and Spill Procedure: Ventilate area. Cleanup personnel should be trained in the handling of hazardous chemicals and should wear protective equipment and clothing sufficient to prevent inhalation of dust or fumes, and contact with skin and eyes. Material can create slippery conditions, use caution in area of spill. Gather up in a manner that does not generate dust (wet if necessary), and collect for reuse or disposal. Prevent from entering sewers or waterways. Flush area of spill with large amounts of running water.

Waste Disposal: Follow all federal, provincial and local regulations.

Handling Procedures and Equipment: COMBUSTIBLE DUST, IRRITANT. Workers using this chemical must be properly trained in its hazards and its safe use, and must wear appropriate protective equipment and clothing. Avoid generating dust. If there is dust, keep away from heat, sparks, and all sources of ignition; avoid the accumulation of static charge, use anti-sparking tools and ground and bond equipment and containers. Use the smallest amount possible for the purpose, in a designated area with adequate ventilation. Use good housekeeping to prevent accumulations of dust. Avoid contact with skin and eyes. Avoid inhalation. Wash thoroughly after handling.

Storage Requirements: Store in suitable, labelled containers, in a cool, dry, well-ventilated area, out of direct sunlight and away from heat and ignition sources and incompatible materials. Storage area should be free of combustible materials. Keep containers tightly closed when not in use and when empty. Protect from damage.

FIRST AID MEASURES**Specific Measures:**

Eyes: Flush eyes thoroughly with gently running water, holding eyelids open while flushing, for five to ten (5-10) minutes, or until no trace of chemical remains. Get medical advice if irritation develops.

Skin: Remove contaminated clothing. Brush or wipe off dry material. Flush skin with plenty of running water until no evidence of chemical remains. Get medical advice if irritation develops. Decontaminate clothing before reuse.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention for irritation or discomfort from dust inhalation.

Ingestion: Rinse mouth thoroughly with water and give 2 to 4 glasses of water to drink to dilute. If victim feels unwell, or if a very large amount has been ingested, get medical attention.

REFERENCES USED

CCINFO disc

Budavari: *The Merck Index*, 12th ed., 1997

Sax, Lewis: *Hawley's Condensed Chemical Dictionary*, 11th ed., 1987

Suppliers' Material Safety Data Sheets

ADDITIONAL INFORMATION

Date Issued: November 2005

Revision: June 2009

MSDS: CAL 1298

Proposed Whmis Designation: Not a controlled product. Not required to be updated every three years (WHMIS 1992, B-40, Section 29,2)

Prepared by: Caledon Laboratories Ltd. (905) 877-0101
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