

MATERIAL SAFETY DATA SHEET

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HMIS HAZARD RATING

HEALTH	1
FIRE	2
REACTIVITY	0
PERSONAL PROTECTION	D

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By: R. Lauterbach

SECTION 1: PRODUCT IDENTIFICATION

Product Name: **TECTYL® 2423 HAPS FREE BLACK**
Product Code: 3069000

SECTION 2: HAZARDOUS INGREDIENTS

Component	Wt%	Recommended Exposure Limits (TWA)
Barium Sulfate CAS #7727-43-7	11-21	OSHA PEL: 10 mg/m ³ (total dust) ACGIH TLV: 10 mg/m ³
Zinc Phosphate Dihydrate CAS #7779-90-0	4-14	None Established
Water CAS #7732-18-5	2-13	None Established
Propylene Glycol Monopropyl Ether CAS #1569-01-3	1-11	None Established
Carbon Black CAS#1333-86-4	1-9	OSHA PEL: 3.5 mg/m ³ ACGIH TLV: 3.5 mg/m ³
^[1] Butyl Benzyl Phthalate CAS #85-68-7	1-5	None Established

^[1] See Section 3

SECTION 3: HEALTH HAZARD INFORMATION

Eyes: May cause mild eye irritation. tearing, and redness. Symptoms include stinging,

Skin: Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. Passage of this material into the body through the skin is possible, and may add to toxic effects from breathing or swallowing.

Swallowing: Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation: Breathing of vapor or mist is possible.

Symptoms of Exposure: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways)

Target Organ Effects: Reduced body weights as well as spleen and sex organ changes were observed following repeated inhalation (4 weeks) of butyl benzyl phthalate by rats. Lower concentrations for a longer period (3 months) produced increased liver and kidney weights. Following repeated exposures (up to 26 weeks) to this material in their feed, reduced body weights and food consumption, weakness, hind limb stiffness, some organ weight changes and effects on liver, testes and pancreas were observed in rats. There was no evidence of changes in nervous system tissues including delayed effects in chickens (repeat oral doses) or rats (single and repeat oral doses). Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate pre-existing disorders of these organs in humans: blood abnormalities, liver abnormalities, anemia, spleen damage, testis damage, eye damage, kidney damage, lung damage.

Developmental Information: This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain. Butyl benzyl phthalate did not produce birth defects in rabbits given this material orally during pregnancy at doses that did not produce maternal toxicity. However, another study reports birth defects in mice and rats given butyl benzyl phthalate orally during pregnancy but only at doses which produced significant toxic effects in the mothers and the offspring. Testicular changes and reduced fertility were reported in male rats fed high doses of butyl benzyl phthalate for 3 weeks or longer.

Cancer Information: *Carbon Black* has been classified by IARC as a Category 2B (known animal carcinogen, possible human carcinogen) material. This was based on the results of rat inhalation studies of carbon black, despite the lack of parallel evidence on humans or other animal species. Female rats fed *butyl benzyl phthalate* in long-term (2 year) studies conducted by the National Toxicology Program (NTP) were reported to show an increased frequency of mononuclear cell leukemia, a common spontaneous disease in the test strain of rat. For this reason, NTP concluded that butyl benzyl phthalate was "probably carcinogenic" for these rats. Male rats in these studies were terminated after 6 months due to excessive treatment related deaths. Mice fed butyl benzyl phthalate (2 years) had no increase in tumors. Butyl benzyl phthalate has produced no genetic changes in standard tests using animal, bacterial and yeast cells.

Other Health Effects: No data

Primary Route(s) of Entry: Inhalation, Skin absorption, Skin contact.

SECTION 4: FIRST AID PROCEDURES

Eyes: If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing: Do not induce vomiting. Give one glass of milk or water, and get medical attention immediately. If possible, do not leave victim unattended.

Inhalation: If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Note to Physicians: No data

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point: 150 °F (65.5 °C) PMCC

Explosive Limit (for component): Lower 1.3 Upper 25.0

Autoignition Temperature: No data

Hazardous Products of Combustion: May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Fire and Explosion Hazards: Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Extinguishing Media: alcohol foam, water fog.

Fire Fighting Instructions: Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

SECTION 6: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Small Spill: Absorb liquid on vermiculite, floor absorbent or other absorbent material.

Large Spill: Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If run-off occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

SECTION 7: SAFE HANDLING INFORMATION

Handling: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five gallon pails and larger metal containers including tank cars and tank trucks should be grounded and/or bonded when material is transferred.

Storage: Not applicable

SECTION 8: EXPOSURE CONTROLS

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin Protection: Wear resistant gloves such as: nitrile rubber. Wear normal work clothing covering arms and legs.

Respiratory Protections: If workplace exposure limit(s) of product or any component is exceeded (See Exposure Guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (consult your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

SECTION 9: REACTIVITY HAZARD DATA

Hazardous Polymerization: Product will not undergo hazardous polymerization.

Hazardous Decomposition: May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Chemical Stability: Stable.

Incompatibility: Avoid contact with: strong mineral acids.

SECTION 10: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (for component):	97 - 213 °F (36.1 - 100.5 °C) @ 760 mmHg
Vapor Pressure(for component):	28.28 mmHg @ 68 °F
Specific Vapor Density:	No data
Specific Gravity:	1.26 @ 60 °F
Liquid Density:	10.46 lbs/gal @ 60 °F 1.26 kg/l @ 15.6 °C
Percent Volatiles (Including Water):	43 - 63
Evaporation Rate:	SLOWER THAN ETHYL ETHER
Appearance:	No data
State:	LIQUID
Physical Form:	No data
Color:	BLACK
Odor:	No data
pH:	9 - 10
Viscosity:	80 - 90 sec

SECTION 11: DISPOSAL CONSIDERATIONS

Waste Management Information: Dispose of in accordance with all applicable local, state and federal regulations.

SECTION 12: REGULATORY INFORMATION

Volatile Organic Content: (Calculated Values)
VOC per gallon: 1.5 lbs/gal
VOC per gallon minus exempt solvents & water: 2.3 lbs/gal

EPA Hazardous Waste Number(s) (40 CFR Part 261): N/A

EPA Hazard Category (40 CFR Part 370): DELAYED (CHRONIC)
IMMEDIATE (ACUTE)
FIRE

SARA TITLE III:

This product contains the following TOXIC CHEMICALS subject to the Reporting Requirements of Sec. 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and of 40 CFR Part 372:

<u>Chemical</u>	<u>CAS No.</u>	<u>Wt%</u>
NONE		

This product contains the following EXTREMELY HAZARDOUS SUBSTANCE(S) subject to Emergency Planning Requirements under Sec. 301-303 (40 CFR Parts 300 and 355) and Emergency Release Notification Requirements under Sec. 304:

<u>Chemical</u>	<u>CAS No.</u>	<u>Wt%</u>	<u>RQ/TPO Lbs</u>
NONE			

This product contains the following (CERCLA LIST) HAZARDOUS SUBSTANCE(S) subject to Emergency Release Notification Requirements under Sec. 304 (40 CFR Part 302):

<u>Chemical</u>	<u>CAS No.</u>	<u>Wt%</u>	<u>Final RQ Lbs</u>
Butyl Benzyl Phthalate	85-68-7	1-5	100

CALIFORNIA PROPOSITION 65:

This product contains chemicals that are identified by the State of California under the Safe Drinking Water and Toxic Reinforcement Act of 1986 ("Proposition 65") as either a carcinogenic or reproductive hazard:

Contains: Butyl Benzyl Phthalate	85-68-7	1-5%
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Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.