

# MATERIAL SAFETY DATA SHEET

Supplier: **Johnsonite, Inc.**  
16910 Munn Road  
Chagrin Falls, Ohio 44023

Product: **450 Adhesive**

## Section 1 – Product Identification

Product Identifier\ Trade Name\ Material Name:	Tarkett 450, DT 450, Adhesive
Product Code\Internal ID:	450
Product Use or Description:	Linoleum adhesive
MSDS Date:	10/10/06

## Hazardous Materials Identification System (HMIS)

Health Hazard:	1	Chronic Hazard:	No
Flammability:	0		
Reactivity:	0		
Personal Protection:	B		

For 24 HOUR MEDICAL AND DOT EMERGENCY RESPONSE COMMUNICATIONS AND INFORMATION, PLEASE CALL:  
CANUTEC in Canada at (613) 996-6666 or  
PROSAR in U.S.A. at (800) 228-5635 ext 079

For technical information, please call Technical Services at: (800) 899-8916  
(440) 543-8916  
(440) 543-8920 – Fax

## Section 2 – Chemical Composition \ Hazardous Ingredients

Ingredients	CAS #	% by Weight	OSHA PEL	ACGIH TLV
This product contains no hazardous ingredients as defined by US OSHA hazard communication standard – 29CFR 1910.1200 or section 13 of the Canadian Hazardous Products Acts. US OSHA and Health Canada do not regulate this product as a Hazardous substance. This data sheet is provided as a courtesy to guide proper handling of the material and safe work practices in general. For California (Proposition 65): This product contains no chemicals reportable under Proposition 65. All ingredients are listed within the US TSCA and Canadian DSL.				

## Section 3 – Hazards Identification

Route of Entry:	
Eye Contact:	Yes
Skin Contact:	Yes
Inhalation:	Yes
Ingestion:	Yes
Effects of acute exposure to product:	Inhalation or contact can cause irritation to eyes, skin, nose, or throat to sensitive people. If ingested can cause nausea, vomiting, gripping, and diarrhea
Effects of chronic exposure to product:	No
Other important hazards	Allergies, skin, and respiratory disorders. Product sensitivity.

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## Section 4 – First Aid Measures

Eye Contact:	Flush with cool water for 15 minutes while holding eyelid open. If irritation persists, seek medical attention immediately.
Skin Contact:	Avoid contact with skin. Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek immediate medical attention.
Inhalation:	Remove to fresh air. If not breathing, trained personnel should initiate artificial respiration and immediate medical attention should be obtained.
Ingestion:	Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.

## Section 5 – Fire Fighting Measures

Fire hazards\conditions of flammability:	Product will not burn until all water content has evaporated.
Means of extinction:	Water spray, carbon dioxide, dry chemical or foam.
Flashpoint and method of determinations:	Not established
Lower flammable limit (% by volume):	Not established
Upper flammable limit (% by volume):	Not established
Special fire-fighting procedures\equipment:	Wear standard fire fighting gear with self-contained breathing apparatus.
Unusual fire and explosion hazards:	Some decomposition products may be harmful.

## Section 6 – Accidental Release Measures

Personal Precautions:	Avoid prolonged skin contact.
Environmental precautions:	Dispose of in accordance with local, state, provincial, and federal regulations governing your location.
Spill response/cleanup:	While using appropriate protective equipment, place spilled material in poly drum, or container requirement by local disposal company, and store in a safe place till material can be disposed of in accordance with regulations.
Prohibited materials:	Not established.

## Section 7 – Handling and Storage

Safe handling procedures:	Keep container closed when not in use.
Storage requirements:	Store at 60 - 95° F (15 – 35° C) and out of the sun. Use adequate ventilation to avoid breathing vapors when cover is removed.
Incompatible materials:	Strong oxidizing agents, strong acids, and strong bases.
Special packaging materials:	N/Ap.

N/Ap: Not applicable  
N/Av: Not available  
See last page for other abbreviations

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## Section 8 – Exposure Controls and Personal Protection

Ventilation and engineering controls:	Use in WELL VENTILATED area only.
Respiratory protection:	If workplace exposure limit of product is exceeded, a NIOSHA/MSHA approved air supplied respirator is required in absence of proper environmental control. Engineering or administrative controls should be implemented to reduce exposure.
Protective gloves:	Impervious (Nitrile, rubber, or better)
Eye protection:	Safety glasses or goggles as necessary to prevent eye contact.
Other protective equipment:	As needed to minimize contact with skin.
Permissible exposure levels:	Not established.

## Section 9 – Reactivity and Stability Data

Stability and reactivity (Polymerization):	Stable
Conditions to avoid:	None Known
Materials to avoid:	Strong oxidizing agents, strong acids, and strong bases.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, oxides of nitrogen, and other unidentified organic compounds.

## Section 10 – Reactivity and Stability Data

Physical form, color, and odor:	Yellow paste. Slight latex odor.
Odor threshold:	Not established
pH:	9.0 – 9.5
Boiling point:	212° F (100° C)
Melting point:	N/Ap
Freezing point:	N/Ap
Solubility in water:	Dispersible
Coefficient of oil/water distribution:	Not established
Specific gravity or relative density (water = 1)	1.23
Vapor pressure (mmHg):	N/Av
Vapor density (air = 1)	N/Av
Evaporation rate (Butyl Acetate = 1):	Same as water
Calculated VOC:	Comply with rule 1168 (VOC per CA South Coast Air Quality Management District, Rule 1168)

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## Section 11 – Toxicological Information

LD <sub>50</sub> (species and route):	Not established
LC <sub>50</sub> (species and route):	Not established
Toxicological data:	None toxic
Carcinogenicity:	No
Reproductive toxicity:	N/Av
Teratogenicity:	Not established
Mutagenicity:	Not established
Irritancy of product:	Eye irritant.
Sensitization of product:	Product sensitivity.
Conditions aggravated by exposure:	Allergies, skin, and respiratory disorders.
Name of toxicologically synergistic products:	Not established

## Section 12 – Ecological Information

Environmental effects:	Not established
Important environmental characteristics:	Not established
Aquatic toxicity:	Not established

## Section 13 – Waste Disposal

Handling for disposal:	Dispose of in accordance with local, state, provincial, and federal regulations governing your location.
Methods of disposal:	Dispose of in accordance with local, state, provincial, and federal regulations governing your location.

## Section 14 – Transportation Information

Transportation of Dangerous Good (TDG) Information;	
Shipping name:	Not regulated
Class:	N/Ap
UN number:	N/Ap
Packing group:	N/Ap
49 CFR information;	
Shipping name:	Not regulated
Class:	N/Ap
UN number:	N/Ap
Packing group:	N/Ap
International Dangerous Goods information	
IMO:	Not established
ICAO:	Not established
Other information	Not established

## Section 15 – Regulatory Information

WHMIS information	Not regulated under WSHMIS.
CEPA information	All ingredients are listed with the Canadian DSL
TSCA information	All ingredients are listed within the US TSCA

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## Section 16 – Others Information

Certificate of origin	Made in Canada
Prepared by:	Technical Services
Telephone number:	(440) 543-8916
Preparation date:	10/10/06

## Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
ASTM	American Society for Testing and Materials
CEPA	Canadian Environmental Protection Act
CFR	Code of Federal Regulations (Transportation in USA)
IARC	International Agency for Research on Cancer
ICAO	International Civil Aviation Organization
IMO	International Maritime Organization
MSHA	Mine Safety and Health Administration
NBUAC	Normal Butyl Acetate
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System
STEL	Short-Term Exposure Limit

## References

1. Suppliers' raw materials MSDS
2. ACGIH, Threshold Limit Values and Biological Exposure Indices for 1988
3. The Sigma-Aldrich Library of Chemical Safety Data, Second Edition, 1988
4. N.Irving Sax, Dangerous Properties of Industrial Materials, 7<sup>th</sup> Edition, Van Nostrand Reinhold, 1984
5. Health Canada, Reference manual for the WHMIS Requirements of the Hazardous Products Act and Controlled Products Regulation updated March 22, 2001

Information on this form is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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