



MATERIAL SAFETY DATA SHEET

3735 GREEN ROAD  
BEACHWOOD, OHIO 44122-8068

TELEPHONE: (216)292-5000

EMERGENCIES: (216)765-6727 8:30-5:00 EST  
AFTER HOURS: CHEMTREC (800)424-9300

SECTION 1

Order Code: 364101L805

Product Name: BURMASTIC FR  
Chemical Family: Roof Coating  
Product Code: 364-101L  
MSDS Preparer: C. R. BRUNO

Date Prepared: 03-MAY-96  
Replaces Date: 09-MAY-94

Section 2 - Molecular Composition

Common Name and Chemical Name Exposure Limits	Weight %	CAS Number
ASPHALT OSHA:TWA - STEL - ACGIH:TWA 5 mg/M3 STEL - (fumes)	50.0-55.0	8052-42-4
STODDARD SOLVENT (MINERAL SPIRITS) OSHA:TWA 100 ppm STEL - ACGIH:TWA 100 ppm STEL -	25.0-30.0	8052-41-3
FIRE RETARDANT OSHA:TWA 15 mg/M3 STEL - (total nuisance dust) ACGIH:TWA 10 mg/M3 STEL - (total nuisance dust)	10.0-15.0	Trade Secret
MAGNESIUM ALUMINUM SILICATE (CLAY) OSHA:TWA 15 mg/M3 STEL - (total nuisance dust) ACGIH:TWA 10 mg/M3 STEL - (total nuisance dust)	1.0-5.0	8031-18-3
FIRE RETARDANT OSHA:TWA - STEL - ACGIH:TWA - STEL -	1.0-5.0	Trade Secret
CRYSTALLINE SILICA (QUARTZ) OSHA:TWA 0.10 mg/M3 STEL - (skin) (respirable dust) ACGIH:TWA 0.10 mg/M3 STEL - (respirable dust)	0.1-0.4	14808-60-7

Section 3 - Hazards Identification

\*\*\*\*\*

Emergency Overview:

Black liquid. Can cause headache, dizziness, drowsiness, or irritation to the skin, eyes and respiratory system. If inhaled leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention immediately.

\*\*\*\*\*

Potential Hlth Effect/Rte of Entry:

Inhalation:

Can cause headache, dizziness, nausea, drowsiness, stupor, irritation to respiratory system.

Eyes:

Can cause irritation.

Ingestion:

Can cause gastrointestinal irritation.

Skin:

Can cause irritation.

Acute Health Effects:

Not established.

Chronic Health Effects:

Asphalt contains small amounts of polynuclear aromatic compounds which have been shown to cause cancer and respiratory damage in laboratory animals. IARC concluded that there is sufficient evidence for carcinogenicity of crystalline silica (quartz) in experimental animals, but only limited

evidence in humans. Prolonged and repeated overexposure to free crystalline silica dust above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica. However, silica is encapsulated in this product and release is not expected. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Overexposure to mineral spirits can adversely affect the lung, CNS or cardiac system. Prolonged and repeated exposure caused kidney damage in male rats.

-----  
Section 4 - First Aid Measures  
-----

Inhalation:

Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention immediately.

Eyes:

Flush immediately with running water for 15 minutes, lifting the upper and lower lids occasionally. Get medical attention immediately.

Ingestion:

Get medical attention immediately.

Skin:

Wash area of contact thoroughly with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately.

Notes to Physician:

N/A

-----  
Section 5 - Fire Fighting Measures  
-----

Flash Point: 110 F  
Method: PMCC  
Lower Flammability Limit: 0.7% (SOLVENT)  
Upper Flammability Limit: 6% (SOLVENT)  
Autoignition Temperature: Not Established

Extinguishing Media:

If water fog is ineffective, use carbon dioxide, dry chemical or foam.

Fire and Explosion Hazards:

Never use welding or cutting torch on or near container (even empty). Product, residue or vapor may ignite. See section IX for additional precautions.

Special Fire Fighting Procedures:

During a fire, personnel at the scene are to prevent exposure to fumes using accepted fire fighting techniques.

Fire Fighting Equipment:

N/A

Other Precautions:

Small amounts of ammonia, phosphoric acid may form.

-----  
Section 6 - Accidental Release Measures  
-----

Release Response Overview:

Remove sources of ignition immediately. Ventilate to reduce the airborne contaminant concentration below the exposure limit in Section II of the MSDS. Absorb spill in sand, earth or other suitable material. Transfer to appropriate container for disposal.

-----  
Section 7 - Handling and Storage  
-----

Handling and Storage Precautions:

Store in closed container. Keep product and vapor away from heat, sparks and flame. Do not store in direct sunlight. Prevent inhalation of vapor, ingestion, and contact with skin and eyes. Keep container closed when not in use. Vapor may migrate to sources of ignition. Do not smoke, weld, generate sparks, or use flame near container. Change soiled workclothes frequently. Clean hands thoroughly after handling. Precautions also apply to emptied containers.

-----  
Section 8 - Exposure Controls/Personal Protection  
-----

Respiratory:

Wear appropriate, properly fitted NIOSH/MSHA approved respirator when the airborne contaminant level(s) exceed the exposure limits indicated on the MSDS. Follow respirator manufacturer's directions for respirator use.

Skin:

Protect hands with impervious rubber gloves and wear rubber apron and overshoes. Prevent contact with skin.

Eyes:

Chemical splash goggles.

Face:

Face shield is recommended.

Engineering:

Use local exhaust when the general ventilation is not sufficient to keep the airborne contaminant concentration below the exposure limit in Section II of the MSDS.

-----  
Section 9 - Physical and Chemical Properties  
-----

Odor/Appearance:	SOLVENT/BLACK LIQUID
Color:	BLACK
Physical State:	Liquid
pH:	N/A
Vapor Pressure:	Not Established
Vapor Density:	>1
Boiling Point:	Not Establ.
Melting Point:	N/A
Freezing Point:	Not Establ.
Solubility in Water:	Negligible
Specific Gravity:	0.99
% Volatile Weight:	30.0

-----  
Section 10 - Reactivity/Stability  
-----

Stability:

Stable

Incompatible Products:

Avoid contact with strong oxidizing agents.

Conditions to Avoid Polymerization:

Hazardous polymerization will not occur.

-----  
Section 11 - Toxicological Information  
-----

Eyes:	N/A
Ingestion:	N/A
Inhalation:	N/A
Skin:	N/A

Subchronic: N/A

Chronic: N/A

-----  
Section 12 - Ecological Information  
-----

Ecotoxicological Data: N/A

Chemical Fate: N/A

-----  
Section 13 - Disposal Considerations  
-----

RCRA Class:  
D001 - IGNITABLE LIQUID OR SOLID WASTE (RQ = 100.0 LB)

Disposal Method:  
Subject to hazardous waste treatment, storage, and disposal requirements under RCRA. Incinerate at EPA approved facility or dispose of in compliance with federal, state and local regulations.

EPA Reportable Quantities  
-----

N/A

-----  
Section 14 - Transportation Data  
-----

DOT Shipping Name: NOT REGULATED(SEE BELOW)

DOT Hazard Class: NOT APPLICABLE

DOT Label: NONE

UN/NA Number: BELOW

Packing Group: BELOW

Special Provisions:

Packaging

-----  
Exceptions:

Non-Bulk:

Bulk:

Quantity Limitations  
-----

Passenger Aircraft or Railcar:

Cargo Aircraft:

Vessel Stowage Requirements  
-----

Vessel Stowage:

Other Stowage:

Transportation Notes:

TYPE OF CONTAINER/SHIPMENT	PROPER SHIPPING NAME	HAZARD CLASS	UN/NA#
LESS THAN 110 GAL/DOMESTIC	NOT REGULATED	NOT REGULATED	N/A
MORE THAN 110 GAL/DOMESTIC	COMBUSTIBLE LIQUID N.O.S.(MINERAL SPIRITS)	COMBUSTIBLE, CLASS3,PGIII	NA1993
ALL CONTAINERS/FOR AIR- FREIGHT OR INTERNATIONAL SHIPMENTS	FLAMMABLE LIQUID N.O.S.(MINERAL SPIRITS)	FLAMMABLE, CLASS3,PGIII	UN1993

-----  
Section 15 - Regulatory Information  
-----

TSCA Status: On the TSCA Inventory

OSHA Status: Considered hazardous based on the following criteria:

Irritant

Target Organs

-----  
Liver  
Kidney  
Nerve  
Lung  
Skin

OSHA Hazardous Components

CAS Number

-----  
\* CRYSTALLINE SILICA (QUARTZ) 14808-60-7  
\* ASPHALT 8052-42-4

\* - CHEMICAL IS LISTED AS AN IARC, NTP, OSHA, or ACGIH CARCINOGEN

Compliance Quantities

-----  
Source Type Threshold Unit of Measure  
RCRA(D001) REPORTABLE QUANTITY 100.0 POUNDS

SARA 311 Ratings

-----  
Immediate Health Hazard: Y  
Delayed Health Hazard: Y  
Fire Hazard: Y  
Reactivity Hazard: N  
Sudden Release of Pressure Hazard: N

SARA 313 Ingredients

-----  
No SARA 313 Ingredients

Proposition 65 Ingredients

-----  
Chemicals known to the State of California to cause cancer or  
birth defects or other reproductive harm

-----  
CAS Number  
CRYSTALLINE SILICA (QUARTZ) 14808-60-7  
ASPHALT 8052-42-4

-----  
Section 16 - Other Information

-----  
FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.  
THE HAZARD INFORMATION HEREIN IS OFFERED SOLELY FOR THE CONSIDERATION  
OF THE USER, SUBJECT TO HIS OWN INVESTIGATION OF COMPLIANCE WITH APPLICABLE  
REGULATIONS, INCLUDING THE SAFE USE OF THE PRODUCT UNDER EVERY FORESEEABLE  
CONDITION.