

SATISFIED BRAKE PRODUCTS INC.  
MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: FRICTION MATERIAL H

MSDS Number: SBP1 Rev. 1

Prepared Date: 06/25/2004

Product Use: Friction material

Revision Date: 11/01/2012

MANUFACTURER: Emergency Telephone Number:  
Satisfied Brake Products Inc., 24 hours  
805 Education Road (613) 933-3300  
Cornwall, Ontario CANADA  
K6H 6C7 Information: (613) 933-3300

SUPPLIER'S NAME:

Rayloc

Division of Genuine Parts Company  
3100 Windy Hill Road  
Atlanta, GA 30339

2. COMPOSITION / INFORMATION ON INGREDIENTS

Components May or May Not Be Present	wt. %	CAS Number	PEL mg/m3	TLV-TWA mg/m3	LD50 mg/kg (oral, rat)	LC50 mg/kg (inh, rat)	
Iron Powder	0-45	7439-89-6		N.E.		30 g/kg	N.E.
Barytes (dust)	5-35	7727-43-7		10**		N.E.	N.E.
		5 *					
Graphites	0-30	7782-42-5		2	2.0 *	N.E.	N.E.
Zirconium Hydroxide		0-25	14475-63-9		5	N.E.	N.E.
Mineral Wool (dust)		0-20	65997-17-3		15**		N.E.
Copper Fiber	0-20	7440-50-8		1.0 dust	1.0 dust		N.E.
N.E.							
Phenolic Resin	5-15	108-95-2		19	19	317 mg/kg	316
mg/m3							
Ceramic Fiber	0-15	142844-00-6		N.E.	0.2 f/cc		N.E.
Vermiculite (dust)		0-15	1318-00-9		15**	10**	N.E.
		5 *	3 *				N.E.
Coal Dust	0-10	68409-95-0		2	2	N.E.	N.E.
Coke (dust)	0-10	64743-05-1		N.E.	2 *	N.E.	N.E.
Hydrated Lime	0-10	1305-62-0		5	5	7340	N.E.
Magnesium Oxide	0-10	1309-48-4		10**	10 Inhalable	N.E.	N.E.
Mica	0-15	12001-26-2	3*	3*		N.E.	N.E.
Aluminum	0-10	7429-90-5		15**	10 metal dust	N.E.	N.E.
		5*					
Aluminum Silicate		0-5	1302-76-7		N.E.	2 as Al	N.E.
Antimony Sulfide		0-5	1345-04-6		0.5 as Sb	0.5 as Sb	N.E.
N.E.	N.E.						
Carbon Black	0-1.5	1333-86-4		3.5	3.5	N.E.	6750 rat/4H
Chromite	0-2	1308-31-2		0.5	0.05	N.E.	N.E.

Notes: \* = Respirable \*\* = Total N.E = Not Established

3. HAZARDS IDENTIFICATION

## PRIMARY ROUTES OF ENTRY:

Eye      Inhalation      Skin      Ingestion

## POTENTIAL HEALTH EFFECTS:

Eye Contact: May cause irritation if material is introduced into the eye. May cause redness and tearing.

Ingestion: May cause irritation. Excessive absorption of antimony oxide may produce gastrointestinal upset.

Inhalation: Acute exposure to graphite may result in cough, dyspnea, black sputum and fibrosis. The dust of phenolic resin may cause irritation of the nasal and respiratory tracts. If formaldehyde vapours are present, inhalation may cause a form of nasal cancer. Acute exposure to steel wool fibers may cause metal fume fever with symptoms of chills, fever, cough, muscle aches and difficulty breathing from manganese.

Skin Contact: May cause irritation and dermatitis.

Chronic: Chronic exposure to graphite may cause pneumoconiosis. Repeated or prolonged exposure to gases and fumes of rubber from thermal processing or decomposition may cause irritation of respiratory tract. Repeated or prolonged exposure to iron powder may cause siderosis. Chronic exposure to steel wool fibers may cause irritation of the lungs and discoloration of the skin and hair. Prolonged exposure to phenolic resin can cause skin sensitization and dermatitis.

## 4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Seek immediate medical attention.

Ingestion: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Keep airway clear. Seek medical attention immediately.

Inhalation: If irritation occurs, move victim to fresh air. If irritation persists, obtain immediate medical advice.

Skin Contact: Remove contaminated clothing. Wash thoroughly affected areas with soap and water. If irritation persists, obtain medical attention.

## 5. FIRE FIGHTING MEASURES

Flash Point: Not established      Method: Not applicable

Auto-Ignition Temperature: 600°C (1112°F)

Upper Flammability Limits (% vol.): Not established

Lower Flammability Limits (% vol.): Not established

Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures: Not applicable

Explosion Data - Sensitivity to: Mechanical Impact: Not applicable

Static Discharge: Not established

## 6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: If dust is released during machining, abrading or riveting, remove dust by vacuuming or wet mopping. Vacuums used for this purpose should be equipped with HEPA filters. Do not use compressed air to blow dust from

the workplace. Use appropriate personal protection.

## 7. HANDLING AND STORAGE

Handling Procedure/Equipment: Avoid creating dust. Use with adequate ventilation or approved respirators. Avoid contact with eyes. Wash thoroughly after handling. Do not eat, drink or smoke in work areas. Use dustless systems for handling, storage and clean up so that airborne dust does not exceed exposure limits.

Storage Requirements: Shipping and storage may result in an accumulation of dust in shipping containers. If this occurs, dispose of the container in an airtight polyethylene bag or remove by vacuuming or wet mop.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Any operation which may create dust should be adequately exhausted to prevent inhalation of dust.

### PERSONAL PROTECTIVE EQUIPMENT:

Eyes: Wear safety glasses with side shields if exposure to dust is likely.

Respirator: None necessary under normal conditions of use. NIOSH/MSHA approved respirator for exposures to dust, vapours or fumes in concentrations exceeding the exposure limits.

Skin: If skin irritation possible, use rubber gloves and other protective garments.

Other: Not needed under normal use conditions.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Gas      Liquid      Solid

Appearance: Dark grey solid Evaporation Rate: Not applicable

Odour: Phenolic Boiling Point: Not established

Odour Threshold: Not established Freezing Point: Not established

Specific Gravity: 1.80-3.50 g/cc pH: Not established

Vapour Pressure: Not established Coefficient of Water/Oil Distribution: Not established

Vapour Density: Not established Solubility in Water: Insoluble

Volatile Organic Compound VOC (g/L): Not established

## 10. STABILITY AND REACTIVITY

Chemical Stability: Stable If not, under what conditions: Stable at normal conditions and temperatures

Conditions of Reactivity: Not established

Conditions to Avoid /

Incompatible Materials: Not established

Hazardous Dec./Comb.: Not established

Hazardous Polymerization: Will not occur.

## 11. TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP: No

OSHA: No  
IARC: No  
LD50: Not established LC50: Not established  
Irritancy of Product: May cause irritation. Sensitization to Product: Not established  
Reproductive Toxicity: Not established Mutagenicity: Not established  
Teratogenicity: Not established Synergistic Products: Not established

## 12. ECOLOGICAL INFORMATION

This section is subject to future development.

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in a waste container which is suitable for transportation and which does not release fugitive dust. Dispose in landfill in accordance with all governmental regulations.

## 14. TRANSPORT INFORMATION

This section is subject to future development.

## 15. REGULATORY INFORMATION

WHMIS Classification: Not controlled

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR).

## 16. OTHER INFORMATION

Revised Date: 06/25/2004

Reason for Issue: Reviewed, changes to Sections 2, 3, 5, 7, 8, 9, 10, 11, 13, 15 and 16.

Previous Date of Issue: 04/15/2002

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The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal counsel should be consulted to insure proper health, safety and other necessary

information is included on the container.

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