MATERIAL SAFETY DATA SHEET

174.485471

MOLDED FRICTION MATERIAL "11"

Section 1 NAME AND PRODUCT

TEK-MOTIVE, INC.

Date Issued: 6/11/93

167 Commerce Street East Haven, CT 06512

Contact: Richard Moalli Emergency Tel. No. 203-468-2224

Material Number: 511 Non-Asbestos Organic Friction Material

Sec	tion 2 HAZARD	OUS INGREDIE	ENTS	
Hazardous Component	CAS Number	% Range	OSHA P.E.L.	ACGIH T.L.V.
Barium Sulfate	7727-43-7	10 - 30	15mg/M³	10mg/M³
Phenolic Resin	9003-35-4	10 - 30	5.0mg/M³	5.0mg/M³
Carbon	1333-86-4 64743-05-1	2 - 15	3.5mg/M³	3.5mg/M³
Fiber Glass	65997-17-3	10 - 30	15mg/M³	10mg/M³
Graphite	7782-42-5	2 - 15		10mg/M³
Cashew Nut Liquid Particle	NA	2 - 15	NA	NA
Brass (Cu) (Zn)	7440-50-8 7440-66-6	1 - 10	lmg/M³ NA	1mg/M³ 5mg/M³
Rubber (SBR)	NA	2 - 15	NA	NA

	Section 3 PHY	SICAL AND CHEMICAL DATA
	BOILING POINT (°F) VAPOR PRESSURE (mmHg) VAPOR DENSITY SOLUBILITY IN WATER SPECIFIC GRAVITY PERCENT VOLATILE (wt/wt) EVAPORATION RATE APPEARANCE & ODOR	NOT APPLICABLE NOT APPLICABLE NOT APPLICABLE INSOLUBLE 1.95 negligible 0 GRAY/BLACK MATRIX WITH VISIBLE FIBERS
- 1		

Section 4 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT

NON-FLAMMABLE

FLAMMABLE LIMITS

LEL - NON-FLAMMABLE

EXTINGUISHING MEDIA

UEL - NON-FLAMMABLE WATER/WATER MIST/FOAM/CO2

SPECIAL FIRE FIGHTING PROCEDURES

NONE

UNUSUAL FIRE AND EXPLOSION RISKS

NONE

Section 5 HEALTH HAZARD DATA FIRST AID AND MEDICAL

Primary Route(s) of Entry: Inhalation of Dust

Health Hazards (Acute and Chronic): Permissible Exposure Limits (PEL) and Threshold Limit Values (TLV) have not been established for this mixture. Dust created during handling of finished parts should be treated as a hazard. If OSHA nuisance dust allowance is exceeded, appropriate control and protection measures are necessary (see Section 8).

Skin Contact: May cause irritation (see Section 8).

Eye Contact: May cause irritation (see Section 8).

Ingestion: If excessive, seek medical assistance.

Carcinogenicity: See endnotes.

Signs and Symptoms of Overexposure: Watery eyes, skin irritation, heavy breathing or nausea may be symptoms of overexposure.

First Aid: Move victim to fresh air. Flush affected area with clear water.

Section 6	REACTIVITY DATA
STABILITY POLYMERIZATION INCOMPATIBILITY DECOMPOSITION PRODUCTS	Stable Fully polymerized None Carbon monoxide and ammonia may be released at high temperatures.
CONDITIONS TO BE AVOIDED	Avoid creation of dust; use fine filter vacuum or dust collector.

Section 7 STORAGE HANDLING AND USE PROCEDURES

NORMAL STORAGE AND HANDLING Avoid creation of dust.

NORMAL USE Avoid creation of dust without

adequate dust collection system.

IN CASE OF SPILLS Use routine clean up procedures to

remove dust.

DISPOSAL Use normal disposal methods.

Section 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION Wear appropriate dust mask (NIOSH

approved), especially when nuisance

dust levels are exceeded.

VENTILATION Local exhaust or dust collection

should be used when handling parts.

HAND PROTECTION Protective gloves and/or barrier

creams should be used to minimize

possible irritation.

EYE PROTECTION Goggles are recommended.

OTHER EQUIPMENT Normal work clothes and good hygiene.

Section 9 Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of of 1986 (40 CFR 372):

CAS # Chemical Name Percent by Weight

NA Barium Compounds 10 - 30% 7740-50-8 Copper (in Brass) 1 - 5%

This information should be included in all MSDSs that are copied and distributed for this material.

SPECIAL LABELS: NONE REQUIRED

Part of this information was collected from raw material MSDSs which we believe to be reliable. However, this information is provided without representation or warranty, expressed or implied regarding its accuracy. TEK-MOTIVE, INC. does not assume the responsibility or the liability for loss, damage, or expense arising from the use of this information relative to its handling, storage use or disposal of the product.

Endnotes:

1. A number of epidemiological studies, done over many years, of workers employed for up to 40 years in the manufacture of fiber glass have shown no evidence of increases of either malignant or non-malignant respiratory disease attributable to exposure to fiber glass. However, recent studies have shown slight increases in lung cancer among workers employed in the manufacture of glass wool and mineral wool insulation products. These same studies showed no evidence of a similar effect among continuous filament fiber glass workers. This product uses a continuous filament fiber glass product. Continous filament fiber glass has been designated by IARC as a Group 3 "not classifiable as to human carcinogenicity," meaning that evidence is insufficient to link that fiber to cancer.