MATERIAL SAFETY DATA SHEET



MOLDED FRICTION MATERIAL "33"

Section 1 NAME AND PRODUCT

TEK-MOTIVE, INC. Date Issued: 01/28/14

110 Commerce Street East Haven, CT 06512

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

Material Number: 33 Non-Asbestos Semi-metallic Friction Material

Section 2 HAZARDOUS INGREDIENTS					
Hazardous Component	CAS Number	% Range	OSHA P.E.L.	ACGIH T.L.V.	
Barium Sulfate	7727-43-7	2 - 15	15mg/M ³	10mg/M ³	
Phenolic Resin	9003-35-4	10 - 30	5.0mg/M ³	5.0mg/M ³	
Carbon	64743-05-1	2 - 15	10mg/M ³	2.0mg/M ³	
Graphite	7782-42-5	10 - 25	NA	10mg/M ³	
Elastomer Blend	NA	2 - 15	NA	NA	
Magnesium Oxide	1309-48-4	2 - 15	15mg/M ³	5.0mg/M ³	
Iron Powder	7439-89-6	15 - 50	10mg/M ³	10mg/M ³	
Steel Fiber	NA	10 - 30	NA	NA	

Section 3 PHYSICAL A	AND CHEMIC	AL DATA
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BOILING POINT (°F)
VAPOR PRESSURE (mmHg)
VAPOR DENSITY
NOT APPLICABLE
NOT APPLICABLE

SOLUBILITY IN WATER INSOLUBLE

SPECIFIC GRAVITY 3.0

PERCENT VOLATILE (wt/wt) negligible

EVAPORATION RATE 0

APPEARANCE & ODOR METALLIC GRAY MATRIX

Section 4 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT NON-FLAMMABLE FLAMMABLE LIMITS LEL NON-FLAMMABLE UEL NON-FLAMMABLE

EXTINGUISHING MEDIA 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 Stable

POLYMERIZATION Fully polymerized

INCOMPATIBILITY None

DECOMPOSITION PRODUCTS 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):

NONE

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. Elastomer contains trace amounts of acrylonitrile (CAS# 107-13-1) and butadiene (CAS# 106-99-0). Both are suspected human carcinogens. Normal handling of finished parts will not yield acrylonitrile or butadiene exposure in excess of the OSHA P.E.L or ACGIH T.V.L.