

COMPANY INFORMATION

COMPANY NAME: ORTHO SPECIALTIES
COMPANY ADDRESS: 3820 OHIO AVE - SUITE 15

ST. CHARLES, IL 60174

COMPANY PHONE: 630-443-0225 COMPANY FAX: 630-443-0224

COMPANY WEB ADDRESS: www.orthospecialties.com

K-MODULES	
DOCUMENT NUMBER:	SDS64
REVISION DATE:	09/26/2014
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1 - PRODUCT IDENTIFICATION

Product Name: K-Modules
Chemical Family Elastomer

Chemical Name Polyurethane Elastomer

Synonyms Cast Elastomer
CAS Number Not available
TSCA Status Not applicable
Chemical Formula Not applicable

Structure This product is not hazardous under the criteria of

29 CFR 1910.1200.

2-HAZARDOUS INGREDIENTS

Not applicable — Polyurethane elastomers are fully reacted polymers forming articles which are not considered hazardous under OSHA's criteria in 29 CFR 1910.1200.

3-PHYSICAL DATA

Appearance Solid
Color Varies with pigment
Odor None
Odor Threshold None

Molecular Weight Not available

Melt Point Will not melt; will degrade at temperature

above 250°C (480°F)

Not applicable **Boiling Point** Not applicable Vapor Pressure Vapor Density (AIR = 1) Not applicable Hq Not applicable Not applicable Specific Gravity Varies with formulation Bulk Density (lb/ft3) Solubility in Water Insoluble % Volatile by Volume None

4-FIRE AND EXPLOSION DATA

Flash Point °F (°C) Not applicable

Flammable Limits:

LEL Not applicable UEL Not applicable

Extinguishing Media Water, Foam, Dry Chemical **Special Fire Fighting Procedures/**

Unusual Fire or Explosion Hazards:

Evacuate non-emergency personnel to a safe area. Firefighters should use self-contained breathing apparatus. Avoid breathing smoke, fumes, and decomposition products. Use water spray to drench smoldering elastomer. Product may melt, after ignition, to form flammable liquids. Burning produces intense heat, dense smoke, and toxic gases, such as carbon monoxide, oxides of nitrogen and traces of hydrogen cyanide.

5-HEALTH EFFECTS DATA

Primary Route of Exposure

Inhalation of dust during machining and inhalation of vapors during hot wire cutting.

Human Effects of Overexposure:

Acute Effects None known from solid articles. Fumes from hot-wire cutting can be irritating and lead to coughing. These fumes could contain traces of isocyanates (MDI or TDI) depending upon which isocyanate is used in the elastomer formulation.

Chronic Effects

Animal studies indicate that chronic inhalation of overexposure of dusts may cause inflammation of the lungs, fibrosis, and airway obstruction.

Medical Conditions Aggravated by Exposure None known

Exposure Limits:

OSHA PEL Not available for elastomer ACGIH TLV Not available for elastomer

6-EMERGENCY & FIRST AID PROCEDURES

Eye Contact During machining, dust in your eyes should be

removed by flushing with water.

Skin Contact None

Inhalation Contact a physician if coughing, discomfort, or

air passage obstruction occurs due to inhalation of dust. Additionally, remove to fresh air if fumes from hot-wire cutting are inhaled. Call a

physician.

Ingestion None

7-EMPLOYEE PROTECTION RECOMMENDATIONS

Eye Protection None required during handling. During machin-

ing, wear safety glasses.

Skin Protection None required.

Respiratory Protection None required during handling. During hot-wire

cutting, wear air-purifying respirator equipped with organic cartridge if ventilation is inadequate.

Ventilation None required during handling. However, cutting elastomer by hot wire can form decomposition products. Local exhaust ventilation should be used to remove any fumes. If isocyanates are emitted, ventilation should be sufficient to insure levels_below the TLV or TDI (0.005 ppm TWA/0.02 ppm STEL) or MDI (0.02 ppm Ceiling).



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8-REACTIVITY DATA

Stability Stable

Polymerization Will not occur

Incompatibility (Materials to Avoid) Strong acids or bases

Hazardous Decomposition Products

Decomposition through burning produces fumes consisting of organic particulates, gaseous hydrocarbons, carbon dioxide (TLV = 500 ppm), carbon monoxide (TLV = 50 ppm), and may contain traces of toluene diisocyanate (TLV =0.005 ppm), (or Diphenylmethane Diisocyanate (TLV - 0.02 ppm), depending upon formulation). Nitrogen dioxide (TLV = 3 ppm), hydrogen cyanide (TLV = 10 ppm), and acrolein (TLV = 0.1

9-SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled

Pick up and handle as any other inert solid material.

Waste Disposal Method

All material should be packaged, labeled, transported, and disposed or reclaimed in conformance with all applicable local, state, and federal regulations.

10-SPECIAL PRECAUTIONS & STORAGE DATA

Storage Temperature (Min./Max.)

No special temperatures

Average Shelf Life

Indefinite

Special Sensitivity

(Heat, Light, Moisture) Store away from sparks, flames or other ignition sources.

11-SHIPPING DATA

Polyurethane Elastomers Technical Shipping Name **DOT Hazard Classification** Non-regulated UN/NA No None Reportable Quantity None **DOT Labels Required** None **DOT Placards** None Frt. Class Pkg

Plastic or rubber articles, expanded,

lbs/ft3 density_

Product Label None

12-OTHER INFORMATION

This MSDS was prepared to provide data and guidance on the potential hazards associated with polyurethane elastomers. MSDSs for specific formulation should be supplemented by additional information, if available.

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