



# ISOSTATIC

LEADERS IN BRONZE BEARINGS...and MORE

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To: ISOSTATIC INDUSTRIES, INC. CUSTOMERS

Attn: SAFETY DIRECTOR

Subject: MATERIAL SAFETY DATA SHEET HAZARDOUS MATERIAL  
AS DEFINED IN 29 CFR 1910.1200

Enclosed are copies of our Hazard Communication Sheets covering parts sold by Isostatic Industries, Inc.

We feel these parts, in their manufactured state, are not hazardous in shipping or sitting on a shelf.

However, subsequent machining, drilling, melting, etc. could cause hazardous conditions as described on the enclosed data sheet.

We believe our Hazard Communication Sheets to be accurate and comply with the Federal Occupational Safety Communication Standard CFR 1910.1200.

If additional copies of the Material Safety Data Sheets are required, please feel free to request them.

# MATERIAL SAFETY DATA SHEET

## TU<sup>®</sup> Self Lubricating Bearings

DATE: August 1, 2012 VER. 002

### 1. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFY CHEMICAL, IDENTIFY ABD COMMON NAMES)	CAS #	PERCENTAGE
LEAD	7439-92-1	1.4 TO 7.9
PTFE COMPOUNDS	9002-84-0	1.0 TO 6.4
TIN	n/a	4.0 MAX

### 2. MAIN HAZARDS:

FINISHED COMPONENTS ARE SAFE FOR END USERS TO HANDLE AND INSTALL.  
LEAD IS HARMFUL WHEN INGESTED OR INHALED. ALTHOUGH NOT EXPECTED TO CAUSE PROBLEMS UNDER NORMAL USE THIS MATERIAL DOES CONTAIN LEAD. LEAD COMPOUNDS ARE CLASSIFIED AS CATEGORY 1 TOXIC FOR REPRODUCTION AND CATEGORY 3 FOR FERTILITY. LEAD IS HARMFUL BY INHALATION AND IF SWALLOWED. THERE IS A DANGER OF CUMULATIVE EFFECTS.  
THE MATERIAL ALSO CONTAINS PTFE, WHICH ALTHOUGH NOT TOXIC CAN GIVE OFF HAZARDOUS DECOMPOSITION PRODUCTS AT ELEVATED TEMPERATURES. (ABOVE 450C)

### 3. PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE / ODOR:	STEEL BACKING WITH A PLAIN GRAY OVERLAY. ODORLESS.
BOILING POINT	N/A
MELTING POINT:	STEEL: 1450C BRONZE: 1100C PTFE/LEAD: 329C
FLASH POINT:	N/A
VAPOR PRESSURE	N/A
SOLUBILITY IN WATER	NONE
FLAMMABILITY:	N/A

### 4. REACTIVITY AND STABILITY:

STABILITY:	STABLE
CONDITIONS TO BE AVOID:	STRONG ACIDS/BASES
THERMAL DECOMPOSITION:	TEMPERATURE GREATER THAN 400C.

### 5. HEALTH HAZARD DATA

INHALATION:	YES, WHEN TEMPERATURE ABOVE 450C.
SKIN CONTACT:	AVOID LONG-TERM SKIN CONTACT.
EYE CONTACT:	AVOID CONTACT WITH EYES. SHOULD PARTICLE COME INTO CONTACT WITH EYES, WASH EYES WITH COPIOUS AMOUNTS OF WATER FOR A MIN. PERIOD OF 10 MINUTES.

<b>6. FIRST AID MEASURES</b>	
INHALATION:	IN CASE OF EXPOSURE TO PROCESSING FUMES: REMOVE FROM EXPOSURE AND KEEP UNDER MEDICAL REVIEW FOR POSSIBLE DEVELOPMENT OF POLYMER FUME FEVER. FOLLOWING SEVERE EXPOSURE THE PATIENT SHOULD BE KEPT UNDER MEDICAL REVIEW FOR AT LEAST 48 HOURS AS DELAYED PULMONARY EDEMA MAY DEVELOP.
SKIN:	IN CASE OF CONTACT WITH HOT MATERIAL IMMEDIATELY FLOOD THE EFFECT AREA WITH COLD WATER AND OBTAIN IMMEDIATE MEDICAL ATTENTION.
EYE CONTACT:	IN CASE OF CONTACT WITH HOT MATERIAL FLOOD THE AFFECTED AREA WITH COLD WATER AND OBTAIN IMMEDIATE MEDICAL ATTENTION.
INGESTION:	IN THE EVENT OF THIS SUBSTANCE BEING INGESTED. DO NOT INDUCE VOMITING, OBTAIN IMMEDIATE MEDICAL ASSISTANCE.
MEDICAL TREATMENT:	TREATMENT IS SYMPTOMATIC.
<b>7. SAFE HANDLING AND STORAGE</b>	
NORMAL STORAGE AND HANDLING: AFTER HANDLING STRIP MATERIAL OR FINISHED COMPONENTS, HANDS MUST BE WASHED TO PREVENT TRANSFER OF PTFE OR LEAD TO FOOD OR TOBACCO PRODUCTS. STORE IN A DRY WELL-VENTILATED AREA.	
SPILLS:	SPILLAGE OF THIS MATERIAL OR COMPONENTS REQUIRES NO SPECIAL MEASURES AT AMBIENT TEMPERATURE. RETURN SPILLAGES TO A SUITABLE CONTAINER.
<b>8. FIRE FIGHTING MEASURES</b>	
EXTINGUISHING MEDIA: UNLIKELY TO IGNITE EXCEPT IN HIGH HEAT FLUX CONDITIONS. FIRE-FIGHTING PROTECTIVE EQUIPMENT: SELF-CONTAINED BREATHING APPARATUS AND SUITABLE PROTECTIVE CLOTHING SHOULD BE WORN IN FIRE CONDITIONS.	
<b>9. SARA TITLE III INFORMATION</b>	
THIS IS FULLY CURED PRODUCT, HOWEVER, IT MAY CONTAIN TRACE AMOUNTS OF PHENOL AND FORMALDEHYDE, AND MAY THEREFORE BE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313, TITLE HI OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR PART 372 IF PRESENT OR USED IN SUFFICIENT QUANTITIES.	
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