



Common Name: THERMAPLEX HI-TEMP BEARING GREASE, 70214, 70206, 70235, 70255, C70214, C70206, C

Manufacturer: LPS LABORATORIES

MSDS Revision Date: 8/17/2011

Grainger Item Number(s): 20Y639, 39F848, 4UJ38, 4UJ40

Manufacturer Model Number(s):

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LPS (R*)
MATERIAL SAFETY DATA SHEET
LPS (R*) THERMAPLEX (R*) HI-TEMP BEARING GREASE
REVISION DATE: AUGUST 17, 2011
SUPERSEDES: APRIL 1, 2011

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: LPS (R*) THERMAPLEX (R*) HI-TEMP BEARING GREASE
PART NUMBER(S): 70214, 70206, 70235, 70255, C70214, C70206, C70235, C70255
CHEMICAL NAME: PETROLEUM HYDROCARBON
PRODUCT USE:
A LUBRICATING GREASE INTENDED FOR BEARINGS IN HIGH TEMPERATURE APPLICATIONS.
MANUFACTURER INFORMATION:
LPS LABORATORIES
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SECTION 2 - HAZARDS IDENTIFICATION



THIS MATERIAL IS NOT CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200). THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CONTROLLED PRODUCTS REGULATIONS.

EMERGENCY OVERVIEW:

AEROSOL: NOT APPLICABLE

BULK:
WARNING: PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE IRRITATION.

PRIMARY ROUTE(S) OF ENTRY: SKIN AND EYE CONTACT.

POTENTIAL ACUTE HEALTH EFFECTS:

EYES: IRRITATING TO EYES.

SKIN: REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR DEFATTING OF THE SKIN.

INHALATION: OIL MIST MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT.

INGESTION:
PRODUCT HAS A LOW ORDER OF ACUTE ORAL TOXICITY, BUT INGESTION OF LARGE QUANTITIES MAY CAUSE NAUSEA, VOMITING, AND GASTROINTESTINAL IRRITATION.

POTENTIAL CHRONIC HEALTH EFFECTS:

CARCINOGENIC EFFECTS:
NTP: NO
IARC: NO
OSHA: NO
ACGIH: NO

MUTAGENIC EFFECTS: NONE

TERATOGENIC EFFECTS: NONE

TARGET ORGANS: NONE

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN FROM NORMAL EXPOSURE.

SIGNS AND SYMPTOMS:
STINGING IN EYES. REPEATED OR PROLONGED SKIN CONTACT CAN CAUSE REDNESS, IRRITATION, AND SCALING OF THE SKIN (DERMATITIS).

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS



COMPONENT	CASRN	WEIGHT PERCENT
RESIDUAL OILS (PETROLEUM), SOLVENT REFINED	64742-01-4	60 - 100%

SECTION 4 - FIRST AID MEASURES



EYES:
CHECK FOR AND REMOVE CONTACT LENSES. IMMEDIATELY, FLUSH EYES WITH COOL, CLEAN, LOW-PRESSURE WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS APART TO ENSURE COMPLETE IRRIGATION OF THE EYE AND EYELID TISSUE. DO NOT USE EYE OINTMENT. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN:
REMOVE CONTAMINATED SHOES AND CLOTHING. CLEAN AFFECTED AREA THOROUGHLY WITH MILD SOAP AND WATER. DO NOT USE OINTMENTS. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

INHALATION:
IMMEDIATELY MOVE VICTIM TO FRESH AIR. IF VICTIM IS NOT BREATHING, IMMEDIATELY BEGIN RESCUE BREATHING. IF HEART HAS STOPPED, IMMEDIATELY BEGIN CARDIOPULMONARY RESUSCITATION (CPR). IF BREATHING IS DIFFICULT, SEEK MEDICAL ATTENTION IMMEDIATELY.

INGESTION:
DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF SPONTANEOUS VOMITING IS ABOUT TO OCCUR, PLACE VICTIM'S HEAD BELOW KNEES. IF VICTIM IS DROWSY OR UNCONSCIOUS, PLACE ON THE LEFT SIDE WITH HEAD DOWN. DO NOT LEAVE VICTIM UNATTENDED. SEEK MEDICAL ATTENTION IMMEDIATELY.

SECTION 5 - FIRE FIGHTING MEASURES



PRODUCTS OF COMBUSTION: CARBON MONOXIDE AND CARBON DIOXIDE.

GENERAL FIRE HAZARDS:
HIGH HEAT WILL CAUSE PRODUCT TO BOIL, EVOLVING VAPOR THAT COULD CAUSE EXPLOSIVE RUPTURE OF CLOSED CONTAINERS.

FIREFIGHTING MEDIA:
SMALL FIRE: USE DRY CHEMICAL POWDER.

LARGE FIRE: USE CO2, WATER SPRAY, FOG OR FOAM.

SENSITIVITY TO IMPACT: NONE

SENSITIVITY TO STATIC DISCHARGE: NONE

PROTECTION CLOTHING (FIRE):
FIREFIGHTERS MUST USE FULL BUNKER GEAR INCLUDING NIOSH-APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST POTENTIAL HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS AND OXYGEN DEFICIENCIES.

SPECIAL REMARKS ON EXPLOSION HAZARDS: NONE

SECTION 6 - ACCIDENTAL RELEASE MEASURES



CONTAINMENT PROCEDURES:

SMALL SPILL AND LEAK:
ABSORB WITH AN INERT MATERIAL AND DISPOSE OF PROPERLY.

LARGE SPILL AND LEAK:
PREVENT MATERIAL FROM ENTERING SEWERS AND DRAINS. PICK UP FOR DISPOSAL USING ABSORBANT PADS, SAND OR OTHER INERT NON-COMBUSTIBLE MATERIALS. PLACE INTO APPROPRIATE WASTE CONTAINERS FOR LATER DISPOSAL.

CLEAN-UP PROCEDURES:
RECOVER FREE PRODUCT AND PLACE IN A SUITABLE CONTAINER FOR DISPOSAL.

EVACUATION PROCEDURES:
VENTILATE AREA OF LEAK OR SPILL. KEEP UNNECESSARY AND UNPROTECTED PEOPLE AWAY.

SPECIAL PROCEDURES:
REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA. WEAR PERSONAL PROTECTIVE EQUIPMENT DURING CLEANUP. BE AWARE OF SPILLED MATERIAL ON WALKING

SURFACES - THIS PRODUCT IS SLIPPERY.

SECTION 7 - HANDLING AND STORAGE



HANDLING: AVOID CONTACT WITH SKIN AND EYES. WASH THOROUGHLY AFTER HANDLING.

STORAGE:
KEEP CONTAINER SEALED UNTIL READY FOR USE. KEEP CONTAINER IN A COOL,
WELL-VENTILATED AREA. STORE BETWEEN 40 DEG. F AND 120 DEG. F (4.4 DEG. C
AND 49 DEG. C).

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
KEEP CONTAINER IN A COOL, WELL-VENTILATED AREA. AVOID BREATHING VAPORS.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION



ENGINEERING CONTROLS:
PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO KEEP EXPOSURES BELOW
5 MG/M3 OIL MIST IN AIR.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION:
SAFETY GLASSES WITH SIDE SHIELDS CONFORMING TO APPROPRIATE REGULATIONS.
EYE WASH FOUNTAIN AND EMERGENCY SHOWER FACILITIES ARE RECOMMENDED.

HAND PROTECTION:
NORMALLY NO HAND PROTECTION IS REQUIRED; HOWEVER, USING CHEMICAL RESISTANT
GLOVES IS RECOMMENDED.

RESPIRATORY PROTECTION:
TYPICAL USE OF THIS PRODUCT UNDER NORMAL CONDITIONS DOES NOT REQUIRE THE
USE OF RESPIRATORY PROTECTION. IF AIRBORNE CONCENTRATIONS ARE ABOVE THE
APPLICABLE EXPOSURE LIMITS (LISTED ABOVE), USE NIOSH APPROVED RESPIRATORY
PROTECTION (I.E. ORGANIC VAPOR CARTRIDGE).

GENERAL HYGIENE:
WASH THOROUGHLY AFTER HANDLING. HAVE EYE-WASH FACILITIES IMMEDIATELY
AVAILABLE.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE: PASTE

COLOR: BROWN

ODOR: PETROLEUM

EVAPORATION RATE: <1 (BuAc = 1)

SOLUBILITY DESCRIPTION: NOT SOLUBLE IN WATER

FLASH POINT: >230 DEG. C (446 DEG. F)

BOILING POINT: NOT ESTABLISHED

FLASH POINT METHOD: TAG-CLOSED CUP

SPECIFIC GRAVITY (H2O=1): 0.99 - 1.01 @ 20 DEG. C

DECOMPOSITION TEMPERATURE: NOT ESTABLISHED

VAPOR DENSITY (AIR = 1): >1

AUTO IGNITION TEMPERATURE: NOT ESTABLISHED

VAPOR PRESSURE: NOT ESTABLISHED

FLAMMABLE LIMITS (ESTIMATED):
LOWER: N.E.
UPPER: N.E.

RULE 1171 PPC: NOT APPLICABLE

PARTITION COEFFICIENT (OCTANOL/WATER): NOT ESTABLISHED

V.O.C. CONTENT:
AEROSOL: NOT APPLICABLE
BULK: 0% PER STATE & FEDERAL CONSUMER PRODUCT REGULATIONS

ODOR THRESHOLD: NOT ESTABLISHED

MELTING POINT: NOT ESTABLISHED

VISCOSITY: NOT ESTABLISHED

PH: NOT APPLICABLE

VOLATILES: 0%

HEAT OF COMBUSTION:
AEROSOL: NOT APPLICABLE
BULK: NOT ESTABLISHED

SECTION 10 - STABILITY AND REACTIVITY



CHEMICAL STABILITY:
PRODUCT IS STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

CONDITIONS TO AVOID: NO SPECIFIC MEASURES TO AVOID.

INCOMPATIBILITY: REACTIVE OR INCOMPATIBLE WITH OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION: THESE PRODUCTS ARE CARBON OXIDES (CO, CO2).

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 11 - TOXICOLOGICAL INFORMATION



ACUTE AND CHRONIC TOXICITY:

A:
GENERAL PRODUCT INFORMATION:
AN ACUTE TOXICITY STUDY OF THIS PRODUCT HAS NOT BEEN CONDUCTED. INFORMATION GIVEN IN THIS SECTION RELATES ONLY TO INDIVIDUAL CONSTITUENTS CONTAINED IN THIS PREPARATION.

B:
COMPONENT ANALYSIS:

COMPONENT	CASRN	LC-50	LD-50
RESIDUAL OILS (PETROLEUM), SOLVENT REFINED	64742-01-4	2.18 MG/L /RAT/4 HR	>2000 MG/KG/ ORAL/RAT* >2000 MG/KG/ DERMAL/RABBIT*

* SUPPLIER DATA

SECTION 12 - ECOLOGICAL INFORMATION



MOBILITY: NON-VOLATILE. ABSORBED ONLY SLOWLY INTO SOIL.

PERSISTENCE / DEGRADABILITY: ONLY SLIGHTLY BIODEGRADABLE

BIOACCUMULATIVE POTENTIAL: NO BIOACCUMULATION POTENTIAL

OTHER ADVERSE EFFECTS: NONE KNOWN

SECTION 13 - DISPOSAL CONSIDERATIONS



WASTE STATUS:
IN ITS PURCHASED FORM, THIS MATERIAL DOES NOT MEET THE DEFINITION OF A
RCRA HAZARDOUS WASTE (40 CFR 261).

DISPOSAL:
WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ANY AND ALL APPLICABLE
ENVIRONMENTAL CONTROL RULES AND/OR REGULATIONS.

NOTE:
CHEMICAL ADDITIONS TO, PROCESSING OF, OR OTHERWISE ALTERING THIS MATERIAL
MAY MAKE THIS WASTE MANAGEMENT INFORMATION INACCURATE, INCOMPLETE, OR
OTHERWISE INAPPROPRIATE. FURTHERMORE, STATE AND LOCAL WASTE DISPOSAL
REQUIREMENTS MAY BE MORE RESTRICTIVE THAN FEDERAL LAWS AND REGULATIONS.

SECTION 14 - TRANSPORT INFORMATION



THIS PRODUCT IS NOT REGULATED BY ANY MODE OF TRANSPORTATION.

THE PRECEDING INFORMATION IS SUBJECT TO CHANGE AND MUST BE VERIFIED PRIOR
TO SHIPMENT. IT IS THE RESPONSIBILITY OF ANYONE OFFERING HAZARDOUS
MATERIALS FOR SHIPMENT TO ENSURE COMPLIANCE WITH ALL APPLICABLE
REGULATIONS.

SECTION 15 - REGULATORY INFORMATION



U.S. FEDERAL REGULATIONS:

RCRA HAZARDOUS WASTE NO.: NONE

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT OF
1980 (CERCLA): NONE

TOXIC SUBSTANCES CONTROL ACT (TSCA):
ALL COMPONENTS OF THIS PRODUCT ARE TSCA INVENTORY LISTED AND/OR ARE EXEMPT.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III SARA SECTION
311/312 (40 CFR 370) HAZARD CATEGORIES: NONE

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL(S) SUBJECT TO REPORTING
REQUIREMENTS OF SARA SECTION 313 (40 CFR 372):
NO INDIVIDUAL SECTION 313 COMPONENT IS PRESENT AT OR ABOVE 1%.

SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPS): NONE

STATE REGULATIONS:

CALIFORNIA:
THIS PRODUCT DOES NOT CONTAIN CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA
TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

CALIFORNIA AND OTC STATES:
THIS PRODUCT IS NOT REGULATED BY CONSUMER PRODUCT REGULATIONS.

NEW JERSEY RIGHT TO KNOW:
AEROSOL: NOT APPLICABLE

BULK:
RESIDUAL OILS (PETROLEUM), SOLVENT REFINED 64742-01-4
POLY-ALPHA OLEFIN 68037-01-4
LITHIUM 12-HYDROXYSTEARATE 7620-77-1
DILITHIUM ADIPATE 18621-94-8
LITHIUM BORATE 12007-60-2

INTERNATIONAL REGULATIONS:

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):
ALL OF THE COMPONENTS OF THIS PRODUCT ARE INCLUDED ON THE CANADIAN DOMESTIC
SUBSTANCES LIST (DSL).

CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM WHMIS:
THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA
OF THE CONTROLLED PRODUCTS REGULATIONS AND THE MSDS CONTAINS ALL THE
INFORMATION REQUIRED BY THE CONTROLLED PRODUCTS REGULATIONS.

WHMIS CLASSIFICATION: NOT WHMIS CONTROLLED

OTHER REGULATIONS:
MONTREAL PROTOCOL LISTED INGREDIENTS: NONE
STOCKHOLM CONVENTION LISTED INGREDIENTS: NONE
ROTTERDAM CONVENTION LISTED INGREDIENTS: NONE
ROHS COMPLIANT: YES

SECTION 16 - OTHER INFORMATION



MSDS#: 70214

MSDS PREPARATION:

RESPONSIBLE NAME:
ELENA BADIUZZI
COMPLIANCE MANAGER

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HMIS 1996
HEALTH 1
FLAMMABILITY 1
REACTIVITY 0

HMIS III:
HEALTH 1[/]
FLAMMABILITY AEROSOL NA
FLAMMABILITY BULK 1
PHYSICAL HAZARD AEROSOL NA
PHYSICAL HAZARD BULK 0

NFPA:
HEALTH 1
FLAMMABILITY 1
REACTIVITY 0
SPECIAL

NOTICE TO READER:
TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE.
HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES
ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE
INFORMATION CONTAINED HEREIN. FINAL DETERMINATION OF SUITABILITY OF ANY
MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT
UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS
ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS
THAT EXIST.

ELENA BADIUZZI, COMPLIANCE MANAGER
LPS LABORATORIES, A DIVISION OF ILLINOIS TOOL WORKS