

SENTRY[®]

Security Fasteners Inc.

MATERIAL SAFETY DATA BULLETIN

HPG-49 - DETENTION LOCK GREASE

DISTRIBUTED BY

643551-00

SENTRY SECURITY FASTENERS, INC.

MSDS --- ASCERTAINED FROM THE MANUFACTURER

REVISED: 12/05/91

***** I. PRODUCT IDENTIFICATION *****

HPG-49

DISTRIBUTOR:

SENTRY SECURITY FASTENERS, INC.

24-HOUR EMERGENCY (CALL COLLECT):

(609) 737-4411

CHEMICAL NAMES AND SYNONYMS:

SYN. HYDROCARBONS AND ADDITIVES

CHEMTREC:

(800) 424-9300

USE or DESCRIPTION:

DETENTION LOCK GREASE

PRODUCT and MSDS INFORMATION:

(309) 693-2800

***** II. TYPICAL CHEMICAL AND PHYSICAL PROPERTIES*****

APPEARANCE: Red Grease

ODOR: Mild PH: NA

VISCOSITY AT 100 F, SUS: 2300.0

AT 40 C, CS: 460.0

VISCOSITY AT 210 F, SUS: 227.0

AT 100 C, CS: 47.0

FLASH POINT F(C): >400(204)

(ESTIMATED (OIL COC))

MELTING POINT F(C): NE

POUR POINT F(C): NA

BOILING POINT F(C): NE

RELATIVE DENSITY, 15/4 C: 0.865

SOLUBILITY IN WATER: Negligible

VAPOR PRESSURE-mm Hg 20C:

Note: Most physical properties for oil component.

NA = Not Applicable NE = Not Established D = Decomposes

FOR FURTHER INFORMATION, CONTACT SENTRY SECURITY FASTENERS, INC.

***** III. POTENTIALLY HAZARDOUS INGREDIENTS *****

None

SEE SECTIONS XII AND XIII FOR REGULATORY AND FURTHER COMPOSITIONAL DATA.

SOURCES: A=ACGIH-TLV, A*=Suggested-TLV, O=OSHA, S=Supplier

NOTE: Limits shown for guidance only. Follow applicable regulations.

***** IV. HEALTH HAZARD DATA *****

--- INCLUDES AGGRAVATED MEDICAL CONDITIONS, IF ESTABLISHED---

THRESHOLD LIMIT VALUE: 5.00 mg/m³ Suggested for Oil Mist

EFFECTS OF OVEREXPOSURE: Slight skin irritation.

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******* V. EMERGENCY AND FIRST AID PROCEDURES *********-- FOR PRIMARY ROUTES OF ENTRY --****EYE CONTACT:** Flush thoroughly with water. If irritation persists, call a physician.**SKIN CONTACT:** Wash contact areas with soap and water. High pressure accidental injection through the skin requires immediate medical attention for possible incision, irrigation and/or debridement.**INHALATION:** Not expected to be a problem.**INGESTION:** Not expected to be a problem. However, if greater than 1/2 liter (pint) ingested, immediately give 1 to 2 glasses of water and call a physician, hospital emergency room or poison control center for assistance. Do not induce vomiting or give anything by mouth to an unconscious person.******* VI. FIRE AND EXPLOSION HAZARD DATA *********FLASH POINT F(C): >400(204) (ESTIMATED (OIL COC))****FLAMMABLE LIMITS. LEL: .4% UEL: 7.0%****EXTINGUISHING MEDIA:** Carbon dioxide, foam, dry chemical and water fog.**SPECIAL FIRE FIGHTING PROCEDURES:** Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. For fires in enclosed areas, firefighters must use self-contained breathing apparatus. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None**NFPA HAZARD ID:** Health: 0, Flammability: 1, Reactivity: 0******* VII. REACTIVITY DATA *********STABILITY (Thermal, Light, ect.):** Stable**CONDITIONS TO AVOID:** Extreme heat.**INCOMPATIBILITY (Materials to Avoid):** Strong oxidizers**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide**HAZARD POLYMERIZATION:** Will not occur.******* VIII. SPILL OR LEAK PROCEDURE *********ENVIRONMENTAL IMPACT:** Report spills as required to appropriate authorities. U.S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 4249300.**PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:** Adsorb on fire retardant treated sawdust, diatomaceous earth, ect. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.PAGE 2 of 5***Providing for your needs . . . "just in time"***

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******* VIII. SPILL OR LEAK PROCEDURE (CONTINUED) *******

WASTE MANAGEMENT: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

******* IX. SPECIAL PROTECTION INFORMATION *******

EYE PROTECTION: Generally eye contact is unlikely with this type material. If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn.

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed.

RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.

******* X. SPECIAL PRECAUTIONS *******

No special precautions required.

******* XI. TOXICOLOGICAL DATA *******
--- ACUTE TOXICOLOGY ---

ORAL TOXICITY (RATS): Slightly toxic --- Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Slightly toxic --- Based on testing similar products and/or the components.

INHALATION TOXICITY (RATS): Not applicable --- Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foreseeable handling, use, or misuse of this product.

EYE IRRITATION (RABBITS): Expected to be non-irritating. --- Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): May cause slight irritation on prolonged or repeated contact. --- Based on testing of similar products and/or the components.

******* XII. REGULATORY INFORMATION *******

GOVERNMENTAL INVENTORY STATUS: All components registered in accordance with TSCA and EINECS.

DOT:

Shipping Name: Not Applicable.

Hazard Class: Not Applicable.

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***** XII. REGULATORY INFORMATION (CONTINUED) *****

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.

RCRA INFORMATION: The unused product, in the manufacturer's opinion, is not specifically listed by the EPA as a hazardous waste (40CFR, Part 261D); does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity, and is not formulated with the contaminants listed in the Toxicity Characteristic (TC) Rule as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

U.S. Superfund Amendments and Reauthorization act (SASA) Title III:

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312 - FORMERLY 302) REPORTABLE HAZARD CATEGORIES: None

This product contains no chemicals reportable under SARA (313) toxic release program.

THE FOLLOWING PRODUCT INGREDIENTS ARE CITED ON THE LISTS BELOW:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
LITHIUM HYDROXIDE (.09%)	1310-65-2	15
OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT (8.74%)	7620-77-1	15
HEXANEDIOIC ACID, MONOMETHYL ESTER, LITHIUM SALT (2.64%)	64601-11-2	15
PENTANEDIOIC ACID, MONOMETHYL ESTER, LITHIUM SALT (.29%)	64601-12-3	15
FATTY ACIDS, C16-22, LITHIUM SALTS (3.05%)	68783-36-8	15

--- KEY TO LIST CITATIONS ---

1 = OSHA Z,	2 = ACGIH,	3 = IARC,	4 = NTP,	5 = NCI,
6 = EPA CARC,	7 = NFPA 49,	8 = NFPA 325M,	9 = DOT HMT	10 = CA RTK,
11 = IL RTK,	12 = MA RTK,	13 = MN RTK,	14 = NJ RTK,	15 = MI 293,
16 = FL RTK,	17 = PA RTK,	18 = CA P65.		

--- NTP, IARC, AND OSHA INCLUDE CARCINOGENIC LISTINGS ---

NOTE: THIS PRODUCT IS NOT FORMULATED TO CONTAIN PCBs.

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***** XIII. INGREDIENTS *****

INGREDIENT DESCRIPTION	PERCENT	CAS NUMBER
<-----> <-----> <----->		
CONTAINS THE FOLLOWING BASE OILS:		
1-DECENE, HOMOPOLYMER, HYDROGENATED	> 75.00	68037-01-4
OCTADECANOIC ACD, 12-HYDROXY- MONOLITHIUM SALT	< 9.00	7620-77-1
FATTY ACIDS, C16-22, LITHIUM SALTS	< 4.00	68783-36-8
HEXANEDIOIC ACID, MONOMETHYL ESTER LITHIUM SALTS	< 3.00	64601-11-2
CARBAMODITHIOIC ACID, DIBUTYL- METHYLENE ESTERS	< 3.00	10254-57-6
ALKYL AMIDES	< 2.00	NJT 003066009-5054P
LITHIUM HYDROXIDE	0.16	1310-65-2
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC	0.09	64742-53-6

THE INFORMATION GIVEN HAS BEEN ASCERTAINED FROM THE MANUFACTURER AND IS OFFERED IN GOOD FAITH AS ACCURATE AS OF 12/05/91, BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

PREPARED BY: SENTRY SECURITY FASTENERS, INC. PEORIA, IL.

FOR FURTHER INFORMATION, CONTACT:

SENTRY SECURITY FASTENERS, INC.

PO BOX 10165, PEORIA, IL 61612 PH. 309 / 693-2800

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