

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT NAME: **PF 529 HEAVY DUTY PENETRATING GREASE**

MANUFACTURED AND SUPPLIED BY: **Pro Form Products Ltd.
604 McGeachie Drive,
Milton, Ontario Canada, L9T 3Y5**

DATE PREPARED:
Tuesday, August 02, 2011

INFORMATION TELEPHONE NUMBER: **(800) 387-7981** CANUTEC EMERGENCY TELEPHONE NUMBER: **(613) 996-6666**

NFPA CODES: Health **2** PRODUCT USE: **Lubricant** WHMIS CLASSIFICATION: **A, B5, D2B**
Flammability **4**
Instability **0**

SECTION 2 - HAZARDOUS INGREDIENTS

% BY WT	C.A.S. #	INGREDIENT	VAPOUR PRESSURE @ 20C
60-80	110-54-3	Hexane	124 mmHg
		ACGIH TVL-TWA	50 ppm
		OSHA PEL-TWA	50 ppm
		LC50 (TVL)	48,000 ppm
		LD50 (ORAL)	28,700 mg/kg
		LC50 (DERMAL)	Not available
7-13	74-98-6	Propane	8.42atm @21.1C
		ACGIH TVL-TWA	2,500 ppm
		OSHA PEL-TWA	1,000 ppm
		LC50 (TVL)	Not available
		LD50 (ORAL)	Not available
		LC50 (DERMAL)	Not available
3-5	75-28-5	Isobutane	(3.1atm) @21.1C
		ACGIH TVL-TWA	800 ppm (butane)
		OSHA PEL-TWA	Not available
		LC50 (TVL)	520,000 ppm (2hr-mouse)
		LD50 (ORAL)	Not available
		LC50 (DERMAL)	Not available

SECTION 3 - PHYSICAL DATA

BOILING POINT: Not Available SPECIFIC GRAVITY: 0.80
MELTING POINT: Not Available SOLUBILITY IN WATER: Not Soluble
EVAPORATION RATE: <1 (n-butyl acetate=1) VOLATILE ORGANIC COMPOUNDS: 608 g/l 5.08 lbs/gal
VAPOUR DENSITY: Heavier than air VOLATILE VOLUME: 95-96%
APPEARANCE: Clear viscous liquid with solvent odour

SECTION 4 - FIRE AND EXPLOSION DATA

FLASHPOINT: -28C (-5.8F) concentrate METHOD USED: TAG closed cup FLAME EXTENSION: <45 cm
LOWER FLAMMABLE LIMIT (% BY VOLUME): 1.2 UPPER FLAMMABLE LIMIT (% BY VOLUME): 9.5 Flashback: No
EXTINGUISHING METHOD: CARBON DIOXIDE FOAM FOG SPRAY
 DRY CHEMICAL WATER STREAM OTHER (SEE SPECIAL PROCEDURES)

SPECIAL FIREFIGHTING PROCEDURES:

Flammable. Conditions to avoid; Ignition sources, excessive heat, open flame, sparks and electrostatic charge.

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time.

SECTION 5 - STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Yes - Under the recommended storage and handling conditions prescribed.
INCOMPATIBLE SUBSTANCES:	Strong oxidizing agents, acids and bases.
REACTIVITY:	High temperatures may cause thermal decomposition. Avoid sources of heat flame and electrostatic charge
HAZARDOUS DECOMPOSITION:	By fire: Hydrocarbon fumes and smoke. Carbon monoxide where combustion is incomplete.
HAZARDOUS POLYMERIZATION:	Will not occur

SECTION 6 - TOXICOLOGICAL AND HEALTH HAZARD DATA

ROUTE OF ENTRY: SKIN CONTACT SKIN ABSORPTION EYE CONTACT INHALATION INGESTION

To minimize exposure, follow recommendations for proper use, as well as ventilation, and personal protective equipment in section 7.

SIGNS OF OVEREXPOSURE:

This product is harmful if inhaled or swallowed. Headache, dizziness, nausea and loss of co-ordination are indications of excessive exposure to vapours or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

EFFECTS OF OVEREXPOSURE:

Inhalation of vapours can cause irritation to the nose throat and respiratory tract, with coughing, wheezing, dizziness, headache, drowsiness, nausea and vomiting. May cause nervous system depression. High vapour concentrations can reduce oxygen available for breathing, resulting in asphyxiation.

May cause skin defatting and dermatitis. Prolonged overexposure may cause liver damage.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

No medical conditions are generally recognized as being aggravated by exposure.

CARCINOGENICITY	Non-carcinogenic	MUTAGENICITY	Non-mutagenicity
TERATOGENICITY	Non-teratogenic	SENSITIZATION	Possible

SECTION 7 - PRECAUTIONS AND PREVENTATIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapour/particulate respirator approved by NIOSH/MSHA for protection against materials in section 2. No protective gloves are required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves. Use chemical safety goggles or full face shield when there is potential for eye contact.

OTHER PRECAUTIONS:

Intentional misuse by deliberately concentrating and inhaling vapours can be harmful or fatal.

ENGINEERING CONTROLS:

Use only with adequate ventilation. Do not puncture container. Avoid contact with skin and eyes. Avoid breathing vapour and spray mist. Wash hands after using. Keep away from heat, sparks and open flame. During use and until all vapours are gone; keep area ventilated - do not smoke - extinguish all flames, pilot lights and heaters - turn off stoves, electric tools and appliances and any other sources of ignition.

LEAK AND SPILL PROCEDURES:

Remove all sources of ignition. Ventilate the area. Do not use combustible materials such as sawdust as an absorbent. Remove with inert absorbent material.

WASTE DISPOSAL:

Do not incinerate. Depressurize container. Dispose of in accordance with local regulations

SPECIAL SHIPPING INSTRUCTIONS: **AEROSOLS, Class 2.1 (6.1), UN1950**

Under the TDG Clear Language Regulations Section 1.17 - this product meets the **Limited Quantity** exemption. Please refer to these regulations if shipping under this exemption.

SECTION 8 - FIRST AID TREATMENT

EYE CONTACT:

Flush eyes with gentle stream of water for at least 15 minutes. Get medical attention.

SKIN CONTACT:

Wash with soap and water

INHALATION:

Remove from exposure, restore breathing. Get medical attention.

ASPIRATION / INGESTION:

Do not induce vomiting. Get medical attention immediately.

NOTE:

In all cases see a physician if any problems persist.

SECTION 9 - PREPARED BY

MSDS DEPARTMENT - PRO FORM PRODUCTS LTD 1-800-387-7981 or info@proformproducts.com

DATE PREPARED: Tuesday, August 02, 2011

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