



Pro Form Products Ltd.
604 McGeachie Drive
Milton, Ontario, L9T 3Y5
Canada
905-878-4990

PRODUCT: PB1201-4 ENGINE BLOCK DEGREASER

SECTION 01: IDENTIFICATION

Initial supplier identifier..... Pro Form Products Ltd.
604 McGeachie Drive
Milton, Ontario L9T3Y5
Tel (905) 878-4990 Fax (905) 878-1189

Product identifier..... PB1201-4 ENGINE BLOCK DEGREASER

Recommended use and restrictions on .. Automotive. This product should not be used for any other purpose other than the ones
use described in this section.

Chemical family..... Mixture.

NFPA rating..... Health: 2 Fire: 2 Reactivity: 0.

HMIS..... H: 2 F: 2 R: 0.

24 hour emergency number..... For transportation emergencies (in Canada) call CANUTEC 1-888-226-8832 (CAN-UTEC);
IN THE UNITED STATES CALL CHEMTREC 1-800-424-9300.
** For medical emergencies contact your local poison control centre **.

SECTION 02: HAZARD IDENTIFICATION



Signal Word..... DANGER.

Hazard Classification..... Flammable Liquid 3. Skin Irritation — Category 2. Skin Sensitizer — Category 1. Serious
Eye Damage — Category 1.

Hazard Description..... H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an
allergic skin reaction. H318 Causes serious eye damage.

Prevention..... P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P233
Keep container tightly closed. P240 Ground and bond container and receiving equipment.
P241 Use explosion proof equipment. P242 Use only non-sparking tools. P243 Take
precautionary measures against static discharge. P261 Avoid breathing mists, vapours and
sprays. P264 Wash thoroughly after handling. P272 Contaminated work clothing should not
be allowed out of the workplace. P280 Wear protective gloves and eye protection.

Response P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish. P303 +
P361 + P353 If on skin or in hair: take off all contaminated clothing immediately. Rinse
thoroughly with water and use safety shower . P305 + P351 + P338 If in eyes rinse
cautiously with water for several minutes. Remove contact lenses, if present and easy to
do. Continue rinsing until medical help arrives. P310 - Immediately call your local poison
control centre. P302 + P352 - If on skin: wash with plenty of water. P362 + P364 - Take off
contaminated clothing and wash before reuse. P333 + P313 If skin irritation or rash occurs,
get medical advice/attention.

Storage..... P403 + P235 Store in well ventilated area. Keep cool.

Disposal..... P501 Dispose all unused, waste or empty containers in accordance with local regulations.

Note This product mixture has been classified based on its ingredients.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Alcohol ethoxylate	Confidential (HMIRA #9608)	1-5
Alkylaryl sulfonate	Confidential (HMIRA #9608)	1-5
N-N-dimethyl 9-decenamide	1356964-77-6	1-5
D-Limonene	5989-27-5	0.5-1.5
Sodium Carbonate	497-19-8	0.1-1

<<The actual concentration(s) withheld as a trade secret>> .

PRODUCT: PB1201-4 ENGINE BLOCK DEGREASER**SECTION 04: FIRST-AID MEASURES**

Eye contact.....	In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Obtain medical attention.
Skin contact.....	Immediately remove all contaminated clothing; flush skin with water for at least 15 minutes. If irritation persists, seek medical attention.
Inhalation.....	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.
Ingestion.....	Rinse mouth with water. Do not induce vomiting. If spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs. Never give anything by mouth to an unconscious person. Get medical attention.
Most important symptoms and effects, whether acute or delayed	Causes skin irritation. Can cause skin sensitization. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation.
Additional information.....	Treat victims symptomatically. In the event of an incident involving this product ensure that medical authorities are provided a copy of this safety data sheet.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing media	"Alcohol" foam, CO ₂ , dry chemical. Water fog. Do not use water in a jet.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	During fire, gases hazardous to health may be formed. The vapour is heavier than air, spreads along the ground and distant ignition is possible. .
Special protective equipment and precautions for fire-fighters	Firefighter should be equipped with self-contained breathing apparatus and full protective clothing to protect against potentially toxic and irritating fumes. Solvent vapours may be heavier than air and may build up and travel along the ground to an ignition source, which may result in a flash back to the source of the vapours. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up Leak/spill.....	Keep away from heat, sparks and flames. Isolate area and keep unauthorized people away. Do not walk through spilled material. Wear recommended protective equipment. Ventilate. Open windows and doors to allow air circulation. Dike area to prevent spreading. The use of absorbent socks or spill pillows may be required. Stop leak if safe to do so. Prevent runoff into drains, sewers, and other waterways. Absorb with an inert dry material and place in an appropriate waste container. Spilled material and water rinses are classified as chemical waste, and must be disposed of in accordance with current local, provincial, state, and federal regulations.
Personal precautions, protective equipment and emergency procedures	Isolate area and keep unauthorized people away. Do not walk through spilled material. Wear recommended protective equipment. Ventilate. Open windows and doors to allow air circulation. Dike area to prevent spreading. The use of absorbent socks or spill pillows may be required. Stop leak if safe to do so. Prevent runoff into drains, sewers, and other waterways.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....	Keep away from heat, sparks, and open flame. Always adopt precautionary measures against build-up of static which may arise from appliances, handling and the containers in which product is packed. Ground handling equipment. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapours or mist. Employees should wash hands and face before eating or drinking.
Conditions for safe storage, including any incompatibilities	Store in a cool and dry place, for product integrity. Keep away from heat, sparks, and open flames. Keep container closed when not in use.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV		OSHA PEL		NIOSH REL
	TWA	STEL	PEL	STEL	
Alcohol ethoxylate	Not established	Not established	Not established	Not established	Not established
Alkylaryl sulfonate	Not established	Not established	Not established	Not established	Not established
N-N-dimethyl 9-decenamide	Not Established	Not Established	Not Established	Not Established	Not Established
D-Limonene	Not established	Not established	Not established	Not established	Not established
Sodium Carbonate	Not Established	Not Established	Not Established	Not Established	Not Established

PRODUCT: PB1201-4 ENGINE BLOCK DEGREASER**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Personal Protective Equipment	
Respiratory/type.....	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.
Eye/type.....	Liquid chemical goggles. Chemical safety goggles and full faceshield if a splash hazard exists.
Gloves/ type.....	Wear skin protection equipment. The selection of skin protection equipment depends on the nature of the work to be performed.
Clothing/type.....	Wear adequate protective clothes.
Footwear/type.....	Safety boots per local regulations.
Other/type.....	Emergency showers and eye wash stations should be available. Employees should wash their hands and face before eating, drinking, or using tobacco products.
Appropriate engineering controls.....	Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. Local mechanical exhaust ventilation should be used at sources of air contamination, such as open process equipment, or during purging operations, to capture gases and fumes that may be emitted. Standard reference sources regarding industrial ventilation (ie. ACGIH industrial ventilation) should be consulted for guidance about adequate ventilation. Explosion-proof exhaust ventilation.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state.....	Liquid.
Colour.....	Light yellow. clear to slightly hazy.
Odour.....	Citrus odour. Orange.
Odour threshold (ppm).....	Not available.
pH.....	Alkaline.
Melting / Freezing point (deg C).....	< 0 °C.
Initial boiling point / boiling range (deg C).....	>93.3°C.
Flash point (deg C), method.....	57.5 C. (estimate; lowest flash point ingredient).
Evaporation rate.....	Not available.
Flammability (solids and gases).....	Flammable liquid.
Upper flammable limit (% vol).....	Not available.
Lower flammable limit (% vol).....	Not available.
Vapour pressure (mm Hg).....	Not available.
Vapour density (air=1).....	Not available.
Relative Density (Specific Gravity).....	8.44 lbs/USG; 1.011.
Solubility.....	Completely soluble.
Partition coefficient — n-octanol/water.....	Not available.
Auto ignition temperature (deg C).....	Not available.
Decomposition temperature.....	Not available.
Viscosity.....	No data.
VOC.....	0.99 lbs/USG.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Product is stable; hazardous polymerization will not occur.
Chemical stability.....	Stable at normal temperatures and pressures.
Possibility of hazardous reactions.....	Will not occur under normal temperature and pressure.
Conditions to avoid, including static	Keep away from heat.
discharge, shock or vibration	
Incompatible materials.....	Strong oxidizing agents.
Hazardous decomposition products.....	None known.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Alcohol ethoxylate	Not determined	Not determined
Alkylaryl sulfonate	Not determined	Not determined
N-N-dimethyl 9-decenamide	Not Available	550 mg/kg (oral, rat)
D-Limonene	Not Available	>5,000 mg/kg Rat oral >5,000 mg/kg Rabbit dermal
Sodium Carbonate	Not Available	2800 mg/kg Rat Oral
Route of exposure.....	Skin contact. Eye contact. Ingestion.	
Effects of acute exposure.....	Can cause moderate skin irritation. Causes serious eye irritation.	
Effects of chronic exposure.....	Prolonged or repeated exposure may result in skin sensitization.	
Sensitizing capability of material.....	May cause sensitization by skin contact.	

PRODUCT: PB1201-4 ENGINE BLOCK DEGREASER**SECTION 11: TOXICOLOGICAL INFORMATION**

Carcinogenicity of material..... D-Limonene is listed as a Group 3 Carcinogen by IARC; not classifiable as to its carcinogenicity to humans .
 Reproductive effects..... No data on reproductive effects were found in the literature sources consulted.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity..... H411 Toxic to aquatic life with long lasting effects.
 Persistence and degradability..... Readily biodegradable.
 Other adverse effects..... Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Information on safe handling for disposal and methods of disposal, including any contaminated packaging . Dispose of as an industrial waste in a manner acceptable to good waste management practice and in accordance with applicable local, provincial/State or federal regulations. Empty containers must be handled with care due to product residue.

SECTION 14: TRANSPORT INFORMATION

TDG Classification..... UN1993 - FLAMMABLE LIQUID, N.O.S. (d-Limonene), Class 3, PG III. Limited Quantity Index: 5 L. This product is a flammable liquid, Class 3, Packing Group III material with a flash point >37.8C and is exempt from the application of these regulations in non-bulk (< 450L) packaging as per TDG 1.33.
 DOT Classification (Road)..... UN1993 - FLAMMABLE LIQUID, N.O.S. (d-Limonene), Class 3, PG III. Refer to 49CRF 172.101 for additional non-bulk packaging requirements. With a flash point > 38C, this product may be reclassified as a combustible liquid and is exempt from application of the regulations in non-bulk packaging (< 450L) as per DOT 173.150 (f)(1)&(2).
 IATA Classification (Air)..... UN1993 - FLAMMABLE LIQUID, N.O.S. (d-Limonene), Class 3, PG III. Limited Quantity. Do not ship by air without checking appropriate IATA regulations.
 IMDG Classification (Marine)..... UN1993 - FLAMMABLE LIQUID, N.O.S. (d-Limonene), Class 3, PG III. Limited Quantity. Check IMDG regulations for limited quantity exemptions.
 Marine Pollutant..... Potential marine pollutant.
 Proof of Classification..... In accordance with Part 2.2.1 of the Transportation of Dangerous Goods Regulations (July 2, 2014) - we certify that classification of this product is correct. .

SECTION 15: REGULATORY INFORMATION

Hazardous Materials Information Review . Claim #9608; April 11, 2016.
 Act
 CEPA status..... On Domestic Substances List (DSL).
 TSCA inventory status..... All components are listed.
 OSHA..... This product is considered hazardous under the OSHA Hazard Communication Standard.
 SARA Title III
 Section 302 - extremely hazardous substances None.
 Section 311/312 - hazard categories..... Immediate health. Fire hazard.
 Section 313..... None.
 EPA hazardous air pollutants (HAPS) None.
 40CFR63
 California Proposition 65..... *** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause birth defects or other reproductive harm. (Ethylene glycol (ingested)). (Methanol). For more information, go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

Prepared by: REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com.
 Telephone number:..... (800) 387-7981.
 Disclaimer:..... DISCLAIMER: All information appearing herein is based upon data obtained from experience and recognized technical sources. To the best of our knowledge, it is believed to be correct as of the date of issue but we make no representations as to its accuracy or sufficiency and do not suggest or guarantee that any hazards listed herein are the only ones which exist. The hazard information contained herein is offered solely for the consideration of the user, subject to his own investigation and verification of compliance with applicable regulations, including the safe use of the product under every foreseeable condition. The information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.
 Date of the latest revision of the safety data sheet .. 2018-10-22