



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

PRODUCT: PB 1403-4 CITRUS ORANGE 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..... PB 1403-4 CITRUS ORANGE DEGREASER

Recommended use and restrictions on .. Degreaser.
use

Chemical family..... Mixture.

NFPA rating..... Health: 1 Fire: 2 Reactivity: 0 .

HMIS..... H: 1 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..... WARNING.

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

Hazard Description..... H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

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 . 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. 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. P337 + P313 - If eye irritation persists get medical 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. %
Propoxy propanol	1569-01-3	3-7
Sodium laureth sulphate	9004-82-4	2-6
Propylene glycol monobutyl ether	5131-66-8	1-5
Dipropylene Glycol Monomethyl Ether	34590-94-8	1-5
N-N-dimethyl 9-decenamide	1356964-77-6	1-5
D-Limonene	5989-27-5	0.5-1.7
Citral	5392-40-5	<= 0.1

PRODUCT: PB 1403-4 CITRUS ORANGE 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.....	Remove all contaminated clothing and immediately wash the exposed areas with copious amounts of water for a minimum of 30 minutes or up to 60 minutes for critical body areas. 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.....	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 if symptoms occur.
Most important symptoms and effects, whether acute or delayed	Can cause skin sensitization. Causes skin and 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. In cases of larger fires, water spray should be used. Do not use water in a jet.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	Oxides of carbon (CO, CO ₂). Oxides of sulphur.
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. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture. 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. Keep run-off water from entering sewers and other waterways. Dike for water control.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak/spill.....	Ventilate. Eliminate all sources of ignition. Contain the spill. Avoid all personal contact. Evacuate all non-essential personnel. 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.
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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. Handle and open container with care. Employees should wash hands and face before eating or drinking.
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks, and open flames. Store away from oxidizing and reducing materials. Store away from sunlight. Keep container closed when not in use.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV		OSHA PEL		NIOSH REL
	TWA	STEL	PEL	STEL	
Propoxy propanol	Not established		Not established		Not established
Sodium laureth sulphate	Not Established	Not Established	Not Established	Not Established	Not Established
Propylene glycol monobutyl ether	Not Established	Not Established	Not Established	Not Established	Not Established
Dipropylene Glycol Monomethyl Ether	100 ppm	150 ppm	No data	150 ppm	STEL: 900 mg/m ³
	CA ON: 100 ppm (TWAEV), 150 ppm (STEV)				
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
Citral	Not Established	Not Established	Not Established	Not Established	Not Established

PRODUCT: PB 1403-4 CITRUS ORANGE 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.....	Chemical resistant gloves.
Clothing/type.....	Wear adequate protective clothes.
Footwear/type.....	Safety boots per local regulations.
Other/type.....	Emergency showers and eye wash stations should be available.
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.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state.....	Liquid.
Colour.....	Clear to pale yellow.
Odour.....	Citrus odour.
Odour threshold (ppm).....	Not available.
Vapour pressure (mm Hg).....	Not available.
Vapour density (air=1).....	>1.
pH.....	Not available.
Relative Density (Specific Gravity).....	8.41 lbs/USG; 1.007.
Melting / Freezing point (deg C).....	< 0.
Solubility.....	Complete.
Initial boiling point / boiling range (deg C).....	> 93.
Evaporation rate.....	No data.
Flash point (deg C), method.....	48 C. (estimated).
Auto ignition temperature (deg C).....	No data.
Upper flammable limit (% vol).....	16.9.
Lower flammable limit (% vol).....	1.1.
Partition coefficient — n-octanol/water.....	Not available.
% Volatile by volume.....	75.31.
VOC (less water).....	0.34 lbs/USG.
Viscosity.....	14.5 sec Zahn #2.

SECTION 10: STABILITY AND REACTIVITY

Chemical stability.....	Stable at normal temperatures and pressures.
Reactivity	Avoid heat, sparks and flames. Explosive reactions can occur in the presence of strong oxidizing agents.
Possibility of hazardous reactions.....	Hazardous polymerization will not occur.
Conditions to avoid, including static discharge, shock or vibration	Keep away from heat. Incompatible with strong oxidizers. Acids.
Hazardous decomposition products.....	By fire:. Oxides of carbon (CO,CO2). Oxides of sulfur. Other potentially toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Propoxy propanol	>2,230 ppm 6 HOURS RAT	2,519 mg/kg RAT ORAL; 3,818 mg/kg RABBIT DERMAL
Sodium laureth sulphate	Not Available	1600 mg/kg (oral, rat)
Propylene glycol monobutyl ether	>651 ppm 4 Hr Rat	2,700 mg/kg Rat Oral >2,000 mg/kg Rat Skin
Dipropylene Glycol Monomethyl Ether	>500 ppm 7 hours Rat	5,180 mg/kg Rat Oral; 9,500 mg/kg Rabbit Dermal
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
Citral	Not Available	Not Available
Route of exposure.....	Eye contact. Skin contact. Inhalation.	
Effects of acute exposure.....	Can cause moderate skin or eye irritation. Ingestion may cause adverse health effects.	

PRODUCT: PB 1403-4 CITRUS ORANGE DEGREASER**SECTION 11: TOXICOLOGICAL INFORMATION**

Effects of chronic exposure.....	Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.
Sensitizing capability of material.....	May cause sensitization by skin contact.
Carcinogenicity of material.....	D-Limonene is listed as a Group 3 Carcinogen by IARC; not classifiable as to its carcinogenicity to humans .
Teratogenicity.....	None known.
Reproductive effects.....	No known reproductive effects.

SECTION 12: ECOLOGICAL INFORMATION

Environmental.....	Do not allow to enter waters, waste water or soil.
Persistence and degradability.....	Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Information on safe handling for disposal and methods of disposal, including any contaminated packaging	Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations.
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SECTION 14: TRANSPORT INFORMATION

TDG Classification.....	UN1993 - FLAMMABLE LIQUIDS, N.O.S. (Propoxy propanol) - Class 3 - Packing Group III - This product meets limited quantity exemption when shipped in containers less than 5 litres.
DOT Classification (Road).....	UN1993 - FLAMMABLE LIQUIDS, N.O.S. (Propoxy propanol) - Class 3 - Packing Group III - Ltd Qty (5 Liters/1.3 Gallons).
IATA Classification (Air).....	UN1993 - FLAMMABLE LIQUIDS, N.O.S. (Propoxy propanol) - Class 3 - Packing Group III - Limited Quantity. Do not ship by air without checking appropriate IATA regulations.
IMDG Classification (Marine).....	UN1993 - FLAMMABLE LIQUIDS, N.O.S. (Propoxy propanol) - Class 3 - Packing Group 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

CEPA status.....	Not determined.
TSCA inventory status.....	Not determined.
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) 40CFR63	None.
California Proposition 65.....	*WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. (Methanol).

SECTION 16: OTHER INFORMATION

Prepared by:	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.
Review Date:.....	2022-11-30.
Date of the latest revision of the safety data sheet	2018-04-05