PRO

## SAFETY DATA SHEET

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

# PRODUCT: PB 1402-4 CITRIS BRIGHTENER

**FORM** 

## **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 1402-4 CITRIS BRIGHTÉNER
Recommended use and restrictions on	Cleaner. for industrial use only-keep out of reach of children .
use	
Chemical family	Mixture.
Chemical family NFPA rating	Health: 3 Fire: 1 Reactivity: 0.
HMIS	H: 3 F: 1 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 Hazard Classification	DANGER. Flammable Liquid 4. Skin Corrosion — Category 1. Serious Eye Damage — Category 1. Health Hazard Not Otherwise Classified 1. Causes serious damage to the respiratory tract.
Hazard Description	H227 Combustible liquid. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
Prevention	P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P260 Do not breathe mist, vapours, or spray. P264 Wash thoroughly after handling. P280 Wear protective gloves and eve 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 . P363 - Wash contaminated clothing before reuse. 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. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P301 + P330 + P331 If Swallowed: Rinse mouth. Do NOT induce vomiting. P310 - Immediately call your local poison control centre.
Storage Disposal Note	P403 Store in a well ventilated area. P405 Store locked up. P501 Dispose all unused, waste or empty containers in accordance with local regulations. This product mixture has been classified based on its ingredients.

#### **SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %	
Disodium metasilicate	6834-92-0	3-7	
2-Butoxyethanol	111-76-2	3-7	
Benzenesulfonic acid, C10-16 alkyl derivatives	68584-22-5	1-5	
Phosphoric Acid	7664-38-2	1-5	
Sodium hydroxide	1310-73-2	1-5	
Tetrasodium EDTA	64-02-8	0.5-1.5	

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

Eye contact	Check for and remove any contact lenses, if safe and easy to do so. Immediately flush eyes with running water for a minimum of 30 minutes preferably up to 60 minutes. Get
Skin contact	medical attention immediately. 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
Inhalation	irritation persists, seek medical attention. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.
Ingestion	If ingestion is suspected, contact physician or poison control center immediately. 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.
Most important symptoms and effects, whether acute or delayed	Causes severe skin burns and eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary
Additional information	irritation. Causes serious injury to the respiratory system. 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

**SECTION 04: FIRST-AID MEASURES** 

Suitable and unsuitable extinguishing media	"Alcohol" foam, CO2, dry chemical. In cases of larger fires, water spray should be used.
Special protective equipment andprecautions 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. Keep run-off water from entering sewers and other waterways. Dike for water control.
Unusual fire / explosion hazards	Vapours may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapour source.
Specific hazards arising from thehazardous product, such as the nature of any hazardous combustion products	Oxides of carbon (CO, CO2). Hydrocarbon fumes and smoke. Acidic fumes.

## SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak/spill Personal precautions, protective equipment and emergency procedures	Ventilate. Eliminate all sources of ignition. Avoid all personal contact. Contain the spill. Prevent runoff into drains, sewers, and other waterways. Evacuate all non-essential personnel. 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. 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			
Methods and materials for containment . and cleaning up	waterways. Dike area to contain the spill, prevent runoff from going into drains, absorb residual material with an inert absorbent, shovel or pump to a properly labelled container and dispose of as a hazardous waste.			

## SECTION 07: HANDLING AND STORAGE

Precautions for safe handling	Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Always adopt precautionary measures against build-up of static which may arise from appliances, handling and the containers in which product is packed. Avoid breathing vapours or mist. Ground handling equipment. Handle and open container with care. Employees should wash hands and face before eating or drinking. Keep away from heat, sparks, and open flame. Keep container closed when not in use. Store away from all sources of heat and ignition.
incompatibilities	Store away from oxidizing and reducing materials. Store away from sunlight. May be corrosive to aluminum.

## **SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	ACGI TWA	H TLV STEL	OSHA PEL	NIOSH REL
	2 mg/m3 (analogy) 20 ppm		Not Established 50 ppm (240 mg/m3)	 Not Established 5 ppm (24 mg/m3)



## SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	AC TWA	CGIH TLV STEL	OSH PEL	IA PEL STEL	NIOSH REL
Benzenesulfonic acid, C10-16 alkyl derivatives	Not Established	Not Established	Not Established	Not Established	Not Established
Phosphoric Acid	1 mg/m3	3 mg/m3	1 mg/m3	3 mg/m3	1 mg/m3
	CA ON: 1 mg/m3	(TWA), 3 mg/m3(STEL)			
Sodium hydroxide	2 mg/m3	Not Established	2 mg/m3	Not Established	Not Established
Tetrasodium EDTA	Not Established	Not Established	Not Established	Not Established	Not Established
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.			
Personal Protective Equipment		Logal avhaust ventilation	is recommended W/	or on onnronriota, prona	rly fitted reconstant
Respiratory/type Eye/type Gloves/ type Clothing/type Footwear/type Other/type		Local exhaust ventilation when contaminant levels Chemical safety goggles a Wear skin protection equi the work to be done. Wear adequate protective Safety boots per local reg Emergency showers and their hands and face befo	exceed the recomme and full faceshield if pment. The selection clothes. ulations. eye wash stations sh	ended exposure limits. a splash hazard exists. a of this equipment deper nould be available. Empl	nds on the nature of oyees should wash

## SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Melting / Freezing point (deg C).< 0 °C.
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## SECTION 10: STABILITY AND REACTIVITY

Reactivity	Avoid heat, sparks and flames. Explosive reactions can occur in the presence of strong
Chemical stability	oxidizing agents. Stable at normal temperatures and pressures.
Possibility of hazardous reactions Conditions to avoid, including static	Hazardous polymerization will not occur. Keep away from heat. Incompatible with strong oxidizers.
discharge, shock or vibration	
Incompatible materails Hazardous decomposition products	Strong oxidizing agents. Reducing agents. No hazardous decomposition products when stored and handled correctly.

# SECTION 11: TOXICOLOGICAL INFORMATION



## **SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS		LC50	LD50	
Disodium metasilicate		> 2.06 g/m3	1153 mg/kg (oral, rat) >5000 mg/kg (dermal, rat)	
2-Butoxyethanol		450 ppm 4 hr rat	1300 mg/kg (rat oral) >2000 mg/kg (rabbit dermal)	
Benzenesulfonic acid, C10-16 alkyl derivative	S	Not Available	Not Available	
Phosphoric Acid		1.689 mg/L 1 hour rabbit	1,530 mg/kg rat oral 2,740 mg/kg rabbit dermal	
Sodium hydroxide		No Data	104-340 mg/kg oral rat 1350 mg/kg dermal rabbit	
Tetrasodium EDTA		Not Available	Not Available	
Route of exposure Effects of acute exposure	<ul> <li>Hazardous in contact with skin, by ingestion, and by inhalation. Causes serious eye irritation. Contact with skin can cause severe irritation. Causes serious injury to the respiratory system. Inhalation of high vapour may cause central nervous system effects, dizziness, headache, nausea, or loss of coordination.</li> </ul>			
Carcinogenicity of material	or fatal. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC or ACGIH.			
Reproductive effects No component of this product present at levels greater than or equal to 0.1% .				

# **SECTION 12: ECOLOGICAL INFORMATION**

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

Not available.

## SECTION 13: DISPOSAL CONSIDERATIONS

Information on safe handling for disposal and methods of disposal, including any	Dispos regulat
contaminated packaging	

use of waste in accordance with all applicable Federal, Provincial/State and local itions. Empty containers must be handled with care due to product residue.

#### **SECTION 14: TRANSPORT INFORMATION**

TDG Classification	UN1760 - CORROSIVE LIQUID, N.O.S. (Disodium metasilicate), Class 8, PG III. Limited
	Quantity Index: 5 L.
DOT Classification (Road)	
IATA Classification (Air)	(5 Liters/1.3 Gallons).
IATA Classification (Air)	UN1760 - CORROSÍVE LIQUID, N.O.S. (Disodium metasilicate), Class 8, PG III. Limited Quantity. Do not ship by air without checking appropriate IATA regulations.
IMDG Classification (Marine)	UN1760 - CORROSIVE LIQUID, N.O.S. (Disodium metasilicate), Class 8, 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**

CEPA status	On Domestic Substances List (DSL).
TSCA inventory status	All components are listed. This product is considered hazardous under the OSHA Hazard Communication Standard.
	This product is considered hazardous under the OSHA Hazard Communication Standard.
SARA Title III	Orde having a stid
Section 302 - extremely hazardous	Supruric acid.
substances	
Section 311/312 - hazard categories	Immediate health, delayed health.
Section 313	None above De minimus % limit.
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 cancer . (Strong inorganic acid mists

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containing sulfuric acid). For more information, go to www.P65Warnings.ca.gov.

## **SECTION 16: OTHER INFORMATION**

Prepared by: Telephone number: Disclaimer: Review Date: Date of the latest revision of the safety	(800) 387-7981. 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.
data sheet	2010-10-04

