

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

#### PRODUCT: **PB 1402-1 CITRUS BRIGHTENER**

#### **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 1402-1 CITRUS BRIGHTENER

Recommended use and restrictions on ...

Cleaner. for industrial use only-keep out of reach of children .

Chemical family.....

Mixture. Health: 3 Fire: 1 Reactivity: 0.

NFPA rating..... HMIS..... H: 3 F: 1 R: 0.

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 \*\*. 24 hour emergency number:....

#### SECTION 02: HAZARD IDENTIFICATION



Signal Word	DANGER.
Signal WordHazard Classification	
	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 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 . 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.
0.	P310 - Immediately call your local poison control centre.
StorageDisposal	P403 Store in a well ventilated area. P405 Store locked up.
	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. %	
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	

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

#### **SECTION 04: FIRST-AID MEASURES**

Eye contact	Check for and remove any contact lenses, if safe and easy to do so. Immediately flush
Skin contact	eyes with running water for a minimum of 30 minutes preferably up to 60 minutes. Get 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
Most important symptoms and effects	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**

Suitable and unsuitable extinguishing ..... "Alcohol" foam, media

"Alcohol" foam, CO2, dry chemical. In cases of larger fires, water spray should be used.

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. 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 the .....hazardous 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**

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.

Methods and materials for containment and cleaning up

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.

Conditions for safe storage, including any incompatibilities

Keep container closed when not in use. Store away from all sources of heat and ignition. Store away from oxidizing and reducing materials. Store away from sunlight. May be corrosive to aluminum.

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

INGREDIENTS	TWA ACG	IH TLV STEL	OSHA PEL	A PEL STEL	NIOSH REL
Disodium metasilicate	2 mg/m3 (analogy)	Not Established	Not Established	Not Established	Not Established
2-Butoxyethanol	20 ppm	No data	50 ppm (240 mg/m3)	No data	5 ppm (24 mg/m3)



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

					<del></del>
		CGIH TLV		A PEL	NIOSH
INGREDIENTS	TWA	STEL	PEL	STEL	REL
Benzenesulfonic acid,	Not Established	Not Established	Not Established	Not Established	Not Established
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 mecha exposure limits. Local me contamination, such as of gases and fumes that ma ventilation (ie. ACGIH ind adequate ventilation.	chanical exhaust venti pen process equipmer y be emitted. Standard	ilation should be used a nt, or during purging ope d reference sources reg	t sources of air erations, to capture arding industrial
Personal Protective Equ	ipment	·			
Respiratory/type		Local exhaust ventilation when contaminant levels			rly fitted respirator
Eye/type		Chemical safety goggles			
Gloves/ type		Wear skin protection equi the work to be done.	ipment. The selection of	of this equipment deper	ds on the nature of
Clothing/type		Wear adequate protective			
Footwear/type		Safety boots per local reg			
Other/type		Emergency showers and their hands and face befo			

#### **SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical state	> 100° C. 62 C. (estimate; lowest flash point ingredient). Similar to water. Not applicable. No data. No Data. No data. Similar to water. 8.39 lbs/USG; 1.005. Soluble. No data.
Solubility	
Partition coefficient — n-octanol/water	No data.
Auto ignition temperature (deg C)	>230°C.
Decomposition temperature	Not available.
Viscosity	No data.
VOC (less water)	1.87 lbs/USG.

## **SECTION 10: STABILITY AND REACTIVITY**

# **SECTION 11: TOXICOLOGICAL INFORMATION**

OFOTION	44		INTERPRETATION.
SECTION	-11: LOXICO	I ()GIC:AI	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	es .	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				
Effects of chronic exposure			etic effects and serious health ng or cracking of skin.	
Carcinogenicity of material	No component of this p	roduct present at levels greater tha confirmed human carcinogen by I.	n or equal to 0.1% is identified ARC or ACGIH.	
		roduct present at levels greater tha	n or equal to 0.1%.	

#### **SECTION 12: ECOLOGICAL INFORMATION**

#### **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. 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
DOT Classification (Road)	Quantity Index: 5 L. UN1760 - CORROSIVE LIQUID, N.O.S. (Disodium metasilicate), Class 8, PG III. Ltd Qty
IATA Classification (Air)	(5 Liters/1.3 Gallons). UN1760 - CORROSIVE LIQUID, N.O.S. (Disodium metasilicate), Class 8, PG III. Limited
IMDG Classification (Marine)	
Marine Pollutant	Quantity. Check IMDG regulations for limited quantity exemptions.  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		
OSHASARA Title III	This product is considered hazardous under the OSHA Hazard Communication Standard.	
Section 302 - extremely hazardous	Sulphuric acid.	
substances Section 311/312 - hazard categories Section 313	Immediate health, delayed health. 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 containing sulfuric acid). For more information, go to www.P65Warnings.ca.gov.	



#### **SECTION 16: OTHER INFORMATION**

Prepared by: REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com. (800) 387-7981.

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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.

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