



Pro Form Products Ltd.  
604 McGeachie Drive  
Milton; Ontario; L9T 3Y5  
Canada

**PRODUCT: 13224 2.1 VOC HIGH BUILD NITROCELLULOSE PRIMER BUFF**
**Section 01: Chemical product and company identification**

Product name..... 13224 2.1 VOC HIGH BUILD NITROCELLULOSE PRIMER BUFF  
 Manufactured for..... Pro Form Products Ltd.  
 604 McGeachie Drive  
 Milton, Ontario L9T3Y5  
 Tel (905) 878-4990 Fax (905) 878-1189  
 24 hour emergency number..... IN CANADA CALL CANUTEC (613) 996-6666-IN THE UNITED STATES CALL  
 CHEMTREC (800) 424-9300.  
 Material use..... Primer. This product should not be used for any other purpose other than the ones  
 described in this section.  
 Chemical family..... Mixture.  
 Preparation date..... November 17, 2014.  
 Hazard rate  
 NFPA rating..... Health: 2 Fire: 3 Reactivity: 0.  
 HMIS..... H: 2 F: 3 R: 0.

**Section 02: Hazards identification**


Signal Word..... DANGER.  
 Hazard Classification..... H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H335 May  
 cause respiratory irritation. H336 May cause drowsiness or dizziness. H350 This product  
 contains ingredients that may cause cancer. H361 This product contains ingredients that  
 are suspected of damaging fertility or the unborn child.  
 Hazard Description.....  
 Precautionary Statements..... P202 Do not handle this product until all safety instructions have been read and  
 understood. P210 Keep away from heat, sparks, open flames and hot surfaces. No  
 smoking. P233 Keep container tightly closed. P242 Use only non-sparking tools. P243  
 Take precautionary measures against static discharge. P240 Ground and bond container  
 and receiving equipment. P241 Use explosion proof equipment. P261 Avoid breathing  
 mists, vapours and sprays. P280 Wear protective gloves and eye protection.  
 Response ..... 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. P304 + P340 - If inhaled remove person to  
 fresh air and keep comfortable for breathing. P308 + P313 If exposed or concerned, get  
 medical advice/attention. P337 + P313 - If eye irritation persists get medical attention. P342  
 + P311 If experiencing respiratory symptoms; call poison center or doctor. P370 + P378 In  
 case of fire - use dry chemical powder, CO2 or 6% foam.  
 Storage..... P403 + P233 Store in a well ventilated area. Keep container tightly closed. P403 + P235  
 Store in well ventilated area. Keep cool. P405 Store locked up.  
 Disposal..... P501 Dispose all unused, waste or empty containers in accordance with local regulations.

**Section 03: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Ingredients	CAS #	Wt. %
ACETIC ACID, TERT-BUTYL ESTER	540-88-5	10-30
METHYL ISOBUTYL KETONE	108-10-1	5-20
ACETONE	67-64-1	5-10
TITANIUM DIOXIDE	13463-67-7	5-10
TALC	14807-96-6	7-13
NEPHELINE SYENITE	37244-96-5	5-10
ETHYL ALCOHOL	64-17-5	1-5
ISOPROPYL ALCOHOL	67-63-0	1-5
N-BUTYL ACETATE	123-86-4	1-5
PHOSPHORIC ACID	7664-38-2	0.1-1.0

**PRODUCT: 13224 2.1 VOC HIGH BUILD NITROCELLULOSE PRIMER BUFF****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 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.
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**

Extinguishing media.....	"Alcohol" foam, CO2, dry chemical. In cases of larger fires, water spray should be used.
Hazardous combustion products.....	Oxides of carbon (CO, CO2).
Special fire fighting procedures.....	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.

**Section 06: Accidental release measures**

Leak/spill.....	Ventilate. Eliminate all sources of ignition. Contain the spill. Avoid all personal contact. 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. Evacuate all non-essential personnel. Prevent runoff into drains, sewers, and other waterways. Absorb with earth, sand, or another dry inert material. Shovel into suitable unsealed containers, transport to well-ventilated area (outside) and treat with neutralizing solution: mixture of water (80%) with non-ionic surfactant Tergitol TMN-10 (20%); or water (90%), concentrated ammonia (3-8%) and detergent (2%).
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**Section 07: Handling and storage**

Handling procedures.....	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.
Storage needs.....	Keep away from heat, sparks, and open flames. Keep container closed when not in use. Store away from oxidizing and reducing materials. Store away from sunlight.

**Section 08: Exposure controls / personal protection**

Protective equipment	
Eye/type.....	Liquid chemical goggles.
Respiratory/type.....	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.
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.
Ventilation requirements.....	Local exhaust at points of emission.
Exposure limits	

Ingredients	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
ACETIC ACID, TERT-BUTYL ESTER	200 ppm	Not established	200 ppm	Not established	200 ppm	
METHYL ISOBUTYL KETONE	50 ppm	75 ppm	100 ppm	Not established	50 ppm / STEL 75 ppm	
ACETONE	500 ppm	750 ppm	1,000 ppm	Not established	250 ppm	
TITANIUM DIOXIDE	10 mg/m3	No data	15 mg/m3	No data	No data	
TALC	2 mg/m3	No data	2 mg/m3	No data	2 mg/m3	
NEPHELINE SYENITE	Not established	Not established	Not established	Not established	Not established	
ETHYL ALCOHOL	1,000 ppm	Not established	1,000 ppm	Not established	1,000 ppm	

**PRODUCT: 13224 2.1 VOC HIGH BUILD NITROCELLULOSE PRIMER BUFF****Section 08: Exposure controls / personal protection**

Ingredients	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
ISOPROPYL ALCOHOL	200 ppm	400 ppm	400 ppm	500 ppm	400 ppm
N-BUTYL ACETATE	150 ppm	200 ppm	150 ppm	200 ppm	150 ppm / STEL 200 ppm
PHOSPHORIC ACID	1 mg/m3	3 mg/m3	1 mg/m3	3 mg/m3	1 mg/m3

**Section 09: Physical and chemical properties**

Physical state.....	Liquid.
Colour.....	Beige.
Odour.....	Solvent odour.
Odour threshold (ppm).....	No data.
Vapour pressure (mm Hg).....	No data.
Vapour density (air=1).....	>1.
pH.....	Not applicable.
Specific gravity.....	10.18 lb/usg - 1.22 g/L.
Freezing point (deg C).....	-36°C.
Solubility.....	Partially.
Boiling point (deg C).....	56°C.
Evaporation rate.....	No data.
Flash point (deg C), method.....	-18°C Closed Cup.
Auto ignition temperature (deg C).....	>465°C.
Upper flammable limit (% vol).....	13%.
Lower flammable limit (% vol).....	1.2%.
Coefficient of water/oil distribution.....	No data.
% Volatile by volume.....	70.
VOC.....	2.0 lbs/USG - 240 g/L.
Viscosity.....	1000 cps spindle # 4.

**Section 10: Stability and reactivity**

Stability.....	Stable at normal temperatures and pressures.
Reactivity conditions.....	Avoid heat, sparks and flames. Explosive reactions can occur in the presence of strong oxidizing agents.
Incompatibility.....	Keep away from heat. Incompatible with strong oxidizers.
Hazardous products of decomposition.....	By fire: Dense black smoke. Oxides of carbon (CO,CO2).
Hazardous polymerization.....	Hazardous polymerization will not occur.

**Section 11: Toxicological information**

Route of entry .....	Eye contact. Skin contact. Inhalation.
Effects of chronic exposure.....	Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. Prolonged or repeated skin contact may cause drying or cracking of skin. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal .
Skin contact.....	Can cause moderate irritation, defatting and dermatitis.
Skin absorption.....	May be harmful if absorbed through the skin.
Eye contact.....	Can cause redness, irritation, tissue destruction.
Inhalation (acute).....	Excessive inhalation of vapours can cause respiratory irritation, dizziness, headache, vomiting and unconsciousness.
Inhalation (chronic).....	Chronic exposure to organic solvent vapors have been associated with various neurotoxic effects including permanent brain and/or nervous system damage, kidney, liver, blood damage and reproductive effects among women. Symptoms may include nausea, vomiting, abdominal pain, headache, impaired memory, loss of coordination, insomnia and breathing difficulties.
Ingestion.....	May be harmful or fatal if swallowed. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.
Carcinogenicity of material.....	Methyl isobutyl ketone is known to the state of California to cause cancer and developmental effects.
Reproductive effects.....	Methyl Isobutyl Ketone is known by the State of California to cause adverse fetal developmental effects.

## Toxicological Data

Ingredients	LC50-inh, rat	LD50-Oral,rat
ACETIC ACID, TERT-BUTYL ESTER	>2,230 mg/m3 4 hours rat	4,100 mg/kg rat oral >2,000 mg/kg rabbit dermal
METHYL ISOBUTYL KETONE	8.2 - 16.4 mg/L 4 hours rat	2080 mg/kg rat oral >16,000 mg/kg rabbit dermal

**PRODUCT: 13224 2.1 VOC HIGH BUILD NITROCELLULOSE PRIMER BUFF****Section 11: Toxicological information**

Ingredients	LC50-inh, rat	LD50-Oral, rat
ACETONE	50,100 mg/m <sup>3</sup> 8 hours rat inhalation	5,800 mg/kg rat oral
TITANIUM DIOXIDE	No data	> 10,000 mg/kg rat oral > 10,000 mg/kg rabbit dermal
TALC	No data	No data
NEPHELINE SYENITE	No data	No data
ETHYL ALCOHOL	20,000 ppm 10 hours rat	3,400 mg/kg oral mouse
ISOPROPYL ALCOHOL	16,000 ppm 8 hours rat inhalation	5,000 mg/kg rat oral 12,800 mg/kg rabbit dermal
N-BUTYL ACETATE	1.36 - 2.38 mg/L 4 hours rat	>3200 mg/kg rat oral >5000 mg/kg rabbit dermal
PHOSPHORIC ACID	1.689 mg/L 1 hour rabbit	1,530 mg/kg rat oral 2,740 mg/kg rabbit dermal

**Section 12: Ecological information**

Environmental..... Do not allow to enter waters, waste water or soil.  
Biodegradability..... No data.

**Section 13: Disposal considerations**

Waste disposal..... This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations.

**Section 14: Transport information**

TDG Classification (Road)..... UN1263 - Paint Related Material - Class 3 - Packing Group II - This product meets the Limited Quantity exemption when packaged in containers less than 5 liters.  
DOT Classification (Road)..... UN1263 - Paint Related Material - Class 3 - Packing Group II - Ltd Qty (5 Liters/1.3 Gallons).  
IATA Classification (Air)..... UN1263 - Paint Related Material - Class 3 - Packing Group II.  
IMDG Classification (Marine)..... UN1263 - Paint Related Material - Class 3 - Packing Group II - EmS: F-E S-E.  
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**

WHMIS classification..... B2, D2A, D2B.  
CEPA status..... On Domestic Substances List (DSL).  
OSHA..... This product is considered hazardous under the OSHA Hazard Communication Standard.  
SARA Title III  
Section 302 - extremely hazardous ..... None.  
substances  
Section 311/312 - hazard categories..... Immediate health, delayed health, fire hazard.  
Section 313..... Isopropyl alcohol. Methyl Isobutyl Ketone.  
EPA hazardous air pollutants (HAPS) ..... Methyl Isobutyl Ketone.  
40CFR63  
TSCA inventory status..... All components are listed.  
California Proposition 65..... This product contains Methyl Isobutyl Ketone (MIBK) known to the State of California to cause cancer.

**Section 16: Other information**

Prepared by: ..... REGULATORY AFFAIRS.  
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.  
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