

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

13412 DIRECT TO METAL 2K URETHANE HIGH BUILD PRIMER WHITE PRODUCT:

SECTION 01: IDENTIFICATION

Product identifier..... 13412 DIRECT TO METAL 2K URETHANE HIGH BUILD PRIMER WHITE

Other means of identification

Mixture

use

Initial supplier identifier.....

Pro Form Products Ltd.

604 McGeachie Drive Milton, Ontario L9T3Y5 Tel (905) 878-4990 Fax (905) 878-1189

Automotive. Primer.

For transportation emergencies (in Canada) call CANUTEC 1-888-226-8832 (CAN-UTEC); 24 hour emergency number:.....

IN THE UNITED STATES CALL CHEMTRÉC 1-800-424-9300.

** For medical emergencies contact your local poison control centre **.

NFPA rating...... Health: 2 Fire: 4 Reactivity: 0.

HMIS...... H: 2 F: 4 R: 0.

SECTION 02: HAZARD IDENTIFICATION



Signal Word Hazard Classification	DANGER. Flammable Liquid 2. Skin Irritation — Category 2. Eye Irritation — Category 2A. Specific Target Organ Toxicity — Single Exposure — Category 3. (narcotic effects). Carcinogenicity — Category 1. Reproductive Toxicity — Category 2.
Hazard Description	H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H350 This product contains ingredients that may cause cancer. H361 Suspected of damaging fertility or the unborn child.
Prevention	P201 Obtain special instructions before use. 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. 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. P271 Use only outdoors or in a well ventilated area. 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. P332 + P313 - If skin irritation occurs get medical attention or advice. 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. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P308 + P313 If exposed or concerned, get medical advice/attention. P312 Call a POISON CENTER/doctor if you feel unwell.
Storage	P233 Keep container tightly closed. P403 + P235 Store in well ventilated area. Keep cool. P405 Store locked up.
Disposal Note	

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS			
CHEMICAL NAME AND SYNONYMS	CAS#	WT. %	
Talc	14807-96-6	10-30	
tert-Butyl acetate	540-88-5	7-13	
Titanium Dioxide	13463-67-7	7-13	
4-Chlorobenzotrifluoride	98-56-6	5-10	
n-Butyl Acetate	123-86-4	5-10	
Xylene	1330-20-7	1-5	
Distillates (Petroleum) Hydrotreated Light	64742-47-8	0.5-1.5	
Ethylbenzene	100-41-4	0.1-1.5	
Crystalline Silica	14808-60-7	0.5-1.5	
< <the a="" actual="" as="" concentration(s)="" td="" tra<="" withheld=""><td>ade secret>> .</td><td></td><td></td></the>	ade secret>> .		

SECTION 04: FIRST-AID MEASURES

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. 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.
Skin contact	Immediately remove all contaminated clothing, flush skin with water for at least 15 minutes. Wash clothing before reuse. If irritation persists, seek medical attention.
Eye contact	In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Check for and remove any contact lenses, if safe and easy to do so. Obtain medical attention.
Most important symptoms and effects, whether acute or delayed	Harmful if swallowed, in contact with skin or if inhaled. Causes skin and eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. This product contains ingredients that may cause cancer. This product contains ingredients that are suspected of damaging fertility or the unborn child.
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

Specific hazards arising from thehazardous product, such as the nature of any hazardous combustion products

Special protective equipment andprecautions for fire-fighters

"Alcohol" foam, CO2, dry chemical. Do not use water in a jet.

Flammable liquid. Thermal decomposition products are toxic. May include:. Oxides of carbon (CO, CO2). Hydrogen chloride. hydrogen flouride. Hydrocarbon fumes and smoke.

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

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. Use non-sparking tools and equipment to pick up the spilled material.

Methods and materials for containment and cleaning up

Leak/spill......

Ventilate. Eliminate all sources of ignition. Use non-sparking tools and equipment to pick up the spilled material. Avoid all personal contact. Evacuate all non-essential personnel. Contain the spill. 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.

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. Keep container closed when not in use. Store away from oxidizing and reducing materials. Store away from sunlight.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

	A	CGIH TLV	OSI	HA PEL	NIOSH
INGREDIENTS	TWA	STEL	PEL	STEL	REL
Talc	2 mg/m3	Not established	2 mg/m3 TWA	Not established	Not established
	CA ON: 2mg/kg ((TWA)			
tert-Butyl acetate	200 ppm	Not established	200 ppm	Not established	200 ppm
	CA ON: 50ppm (TWA), 150ppm (STEL)			
Titanium Dioxide	10 mg/m3	Not established	15 mg/m3	Not established	Not established
4-Chlorobenzotrifluoride	Not established	Not established	Not established	Not established	Not established
n-Butyl Acetate	50 ppm	150 ppm	150 ppm	200 ppm	150 ppm / STEL 200 ppm
	CA ON: 50ppm (TWA), 150ppm (STEL)			
Xylene	50 ppm	150 ppm	100 ppm TWA	Not established	Not established
Distillates (Petroleum) Hydrotreated Light	1200 mg/m3	197 ppm	Not established	Not established	Not established
Ethylbenzene	100 ppm	125 ppm	100 ppm	Not established	100 ppm / STEL 125 ppm
Crystalline Silica	0.025 mg/m3	Not established	0.1 mg/m3 TWA	Not established	0.05 mg/m3
	CA ON: 0.025 mg	g/m3 Respirable			
Appropriate engineering	g controls	Provide natural or mech exposure limits. Local m contamination, such as gases and fumes that m ventilation (ie. ACGIH in adequate ventilation. Ex	nechanical exhaust ver open process equipmon nay be emitted. Standa ndustrial ventilation) sh	ntilation should be used ent, or during purging of ard reference sources re rould be consulted for o	d at sources of air operations, to capture
Personal Protective Eq		·			
Respiratory/type		Local exhaust ventilation when contaminant levels			perly fitted respirator
Eye/type		Liquid chemical goggles exists.			d if a splash hazard
Gloves/ type		Wear skin protection eq the nature of the work to substances, the protecti glove supplier for recom	be performed. In the on time of the gloves of	case of mixtures, con-	sisting of several
Clothing/type		Wear adequate protective	ve clothes.		
Footwear/typeOther/type		Safety boots per local regulations. Emergency showers and eye wash stations should be available. Employees should wash their hands and face before eating, drinking, or using tobacco products.			

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state	Liquid.
Colour	White.
Odour	Hydrocarbon odour.
Odour threshold (ppm)	Not available.
pH	Not applicable.
Melting / Freezing point (deg C)	Not available.
Initial boiling point / boiling range (deg C).	>35 C.
Flash point (deg C), method	4. (estimate; lowest flash point ingredient).
Evaporation rate	Not available.
Flammability (solids and gases)	Not applicable. Flammable liquid.
Upper flammable limit (% vol)	10.5.
Lower flammable limit (% vol)	0.9.



SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Vapour pressure (mm Hg)..... Not available. Vapour density (air=1)..... Relative Density (Specific Gravity)..... 1.467. Pounds / USG..... 12.24. Solubility..... Negligible. Partition coefficient — n-octanol/water..... Not available. >200. Not available. Auto ignition temperature (deg C)..... Decomposition temperature..... 1450 cPs. #4 @ 20 RPM. (Brookfield). Viscosity..... % Volatile by volume..... 2.57 lbs/USG; 308 g/L. 1.86 lb/USG; 222.9 g/L. VOC less exempt volatiles..... VOC less water.....

SECTION 10: STABILITY AND REACTIVITY

Hazardous decomposition products......

Product is stable; hazardous polymerization will not occur. Stable at normal temperatures and pressures.

Will not occur under normal temperature and pressure.

Keep away from heat. Electrostatic charge.

Strong acids. Strong bases. Strong oxidizers. Acetic acid. Nitric acid. Alkalies. Florine. Bromine.

No hazardous decomposition products when stored and handled correctly. Hazardous decomposition products depend on temperature, air supply, and the presence of other materials. Thermal decomposition may produce acrid smoke and irritating fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS		LC50	LD50	
Talc		Not available	Not available	
tert-Butyl acetate		>2,230 mg/m3 4 hours rat	4,100 mg/kg (rat, oral); >2,000 mg/kg (rabbit, dermal)	
Titanium Dioxide		>6.8 mg/L (4 hr)	> 10,000 mg/kg (rat, oral) > 10,000 mg/kg (rabbit, dermal)	
4-Chlorobenzotrifluoride		4479 ppm	>6,800 mg/kg (rat oral); >2,700 mg/kg (rabbit dermal)	
n-Butyl Acetate		390 ppm (4 hr.)	10768 mg/kg (rat oral) 17600 mg/kg (rabbit dermal)	
Xylene		6350 ppm 4 hours rat	>3523 mg/kg rat oral	
Distillates (Petroleum) Hydrotreated Light		>5.2 mg/L (4 hr.)	>5000 mg/kg (oral, rat) >2000 mg/kg (dermal, rabbit)	
Ethylbenzene		No data	3,500 mg/kg rat oral 17,800 mg/kg rabbit dermal	
Crystalline Silica		Not available	>22,500 mg/kg oral rat	
Route of exposure Effects of acute exposure	The aromatic hydrocarb throat. In high concentra	ct. Inhalation. on solvents in this product can be i ation, they may cause central nervo by nausea, lightheadedness and dia	ous system depression and	
Skin contact	. Can cause moderate irritation, defatting and dermatitis.			
Eye contactIngestion	Can cause redness, irritation, tissue destruction. May be harmful or fatal if swallowed. Aspiration of material into lungs can cause chemical			
	pneumonitis which can be fatal.			
Inhalation (acute)	and itching of eyes, dryness of the throat and tightness in the chest. Breathing of high			
Effects of chronic exposure	vapour concentrations may cause anesthetic effects and serious health effects. 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.			
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. Excessive inhalation of vapours can cause respiratory irritation, dizziness, headache, nausea and asphyxiation.			

SECTION 11: TOXICOLOGICAL INFORMATION

Carcinogenicity of material..... Quartz (Crystalline Silica) is listed by IARC in Group 1 as a carcinogen. IARC has

classified Titanium Dioxide as a group 2B carcinogen. Ethylbenzene is known to the state of California to cause cancer and developmental effects and is listed by IARC as a Group

2B Carcinogen.

Reproductive effects..... High level exposure to Xylene in some animal studies have been reported to cause health

effects on the developing embryo/fetus. The relevance of this to humans is not known.

Specific Target Organ Toxicity May cause drowsiness or dizziness.

SECTION 12: ECOLOGICAL INFORMATION

Product data not available. Ecotoxicity..... Persistence and degradability..... Product data not available. Bioaccumulative potential..... Product data not available. Mobility in soil..... Product data not available.

Other adverse effects..... Do not allow to enter waters, waste water or soil.

SECTION 13: DISPOSAL CONSIDERATIONS

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

Empty containers must be handled with care due to product residue. Do not heat or cut empty containers with electric or gas torch. 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.

SECTION 14: TRANSPORT INFORMATION

TDG Classification..... UN1263 - PAINT - Class 3 - Packing Group II - This product meets limited quantity exemption when shipped in containers less than 5 litres. UN1263 - PAINT - Class 3 - Packing Group II - Ltd Qty (1 Liter). DOT Classification (Road)..... Refer to 49CRF 172.101 for additional non-bulk packaging requirements. UN1263 - PAINT - Class 3 - Packing Group II. Limited Quantity. Do not ship by air IATA Classification (Air)..... without checking appropriate IATA regulations. UN1263 - PAINT - Class 3 - Packing Group II - EmS: F-E S-E. Limited Quantity. Check IMDG Classification (Marine)..... IMDG regulations for limited quantity exemptions. Marine Pollutant..... No. In accordance with Part 2.2.1 of the Transportation of Dangerous Goods Regulations (July Proof of Classification.....

2, 2014) - we certify that classification of this product is correct. .

SECTION 15: REGULATORY INFORMATION

CEPA status.....TSCA inventory status.....

On Domestic Substances List (DSL). All components are either listed or exempt from the TSCA. .

This product is considered hazardous under the OSHA Hazard Communication Standard. OSHA.....

SARA Title III

Section 302 - extremely hazardous None.

substances

Section 311/312 - hazard categories...... Immediate health, delayed health, fire hazard.

Ethylbenzene. Xylene. Section 313.....

EPA hazardous air pollutants (HAPS) Ethylbenzene. Toluene. Xylene.

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. (Toluene). ***! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer. (Ethyl benzene). (Silica, crystalline (airborne particles of respirable size). (Titanium dioxide - airborne, unbound particles of respirable size). 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. Telephone number:.....

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SECTION 16: OTHER INFORMATION

Date of the latest revision of the safety .. 2020-12-17 data sheet

