

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

13406 DTM 2K URETHANE PRIMER ACTIVATOR PRODUCT:

SECTION 01: IDENTIFICATION

Initial supplier identifier..... Pro Form Products Ltd. 604 McGeachie Drive

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

13406 DTM 2K URETHANE PRIMER ACTIVATOR

Product identifier..... Paints. Accelerator and activator.

Recommended use and restrictions on ... Chemical family.....

Health: 2 Fire: 4 Reactivity: 1.

NFPA rating..... HMIS..... H: 2 F: 4 R: 1.

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.
Hazard Classification	Flammable Liquid 2. Skin Sensitizer — Category 1. Acute Toxicity (Inhalation) —
	Category 4. Specific Target Organ Toxicity — Single Exposure — Category 3. (respiratory
Hazard Description	system). (narcotic effects). H225 Highly flammable liquid and vapour. H317 May cause an allergic skin reaction. H332
riazara Boodipilori	Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or
	dizziness.
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. P271 Use only outdoors or in a well ventilated area. P272 Contaminated work
	clothing should not be allowed out of the workplace. 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 . P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish. P304 + P340 - If inhaled remove person to
	fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you
	feel unwell. 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.
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. %		
tert-Butyl acetate	540-88-5	60-80		
Homopolymer of HDI	28182-81-2	15-40		

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

PRODUCT: 13406 DTM 2K URETHANE PRIMER ACTIVATOR

SECTION 04: FIRST-AID MEASURES

In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at Eye contact..... least 15 minutes. Check for and remove any contact lenses, if safe and easy to do so. Obtain medical attention. Immediately flush skin with plenty of soap and water. Remove contaminated clothing. Skin contact..... Wash clothing before reuse. If irritation persists, seek medical attention. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is Inhalation..... difficult, give oxygen, obtain medical attention. Do not induce vomiting. Rinse mouth with water. If ingestion is suspected, contact Ingestion..... 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. Harmful if swallowed, in contact with skin or if inhaled. Can cause skin sensitization. May cause respiratory sensitization. High vapour concentrations may be irritating to the Most important symptoms and effects, whether acute or delayed respiratory tract. Can cause central nervous system depression. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Treat victims symptomatically. In all cases, if irritation persists seek medical attention. Skin: this compound is a known skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burns. If burned, treat as thermal burn. In the event of an incident Additional information..... 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 Dry chemical. Carbon dioxide. Foam. In cases of larger fires, water spray should be used. Do not use water in a jet.

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. 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, protectiveequipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. 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. Take precautions against static discharge. Equipment should be grounded.

Methods and materials for containment and cleaning up

Leak/spill......

Ventilate. Eliminate all sources of ignition. Avoid all personal contact. Evacuate all non-essential personnel. Contain the spill. Prevent runoff into drains, sewers, and other waterways. Absorb with earth, sand, or another dry inert material. 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.

71 7 7

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....

Employee education and training are important. Use adequate ventilation. Do not breathe vapours, mist or dust. Wear respiratory protection if material is heated, sprayed, used in confined space, or if exposure limit is exceeded. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed vapour or spray mist. Prevent accumulation of electrostatic charges. Ensure that equipment is properly bonded and grounded during filling and transferring as product may become electrostatically charged. Avoid skin and eye contact. Wash thoroughly after handling. Store in a cool and dry place, for product integrity. Keep away from heat, sparks, and open flames. Store in tightly closed containers to prevent moisture contamination. Attacks some types of rubber, plastics and coatings.

Conditions for safe storage, including any incompatibilities



PRODUCT: 13406 DTM 2K URETHANE PRIMER ACTIVATOR

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

	.011014 00. EX	I GOOKE GONTKOE	JII LIKOON	ALTROTECTION	
INGREDIENTS	TWA	CGIH TLV STEL	PEL	OSHA PEL STEL	NIOSH REL
tert-Butyl acetate	200 ppm CA ON AB BC: 5	Not established Oppm (TWA), 200ppm (STI	200 ppm EL)	Not established	200 ppm
Homopolymer of HDI	5 mg/m3	Not established	5 mg/m3	Not established	5 mg/m3
Appropriate engineering	Supplier: 0.5 mg/controls	Provide natural or mecha exposure limits. Local mec contamination, such as op gases and fumes that may ventilation (ie. ACGIH indu	chanical exhaus pen process equal process equal process betting the process process betting the process proces process proces proces proces proces proces proces proces proces	to control exposure levels be st ventilation should be used sipment, or during purging of andard reference sources re an) should be consulted for gr	at sources of air perations, to capture garding industrial
Personal Protective Equi Eye/typeGloves/ type		Wear skin protection equip	and full faceshie pment. The sele pe performed. Toplier for recom	eaust ventilation. eld if a splash hazard exists. ection of skin protection equi The following gloves are recomendations. Practice good h	pment depends on ommended :. Butyl oygiene, wash
Respiratory/type		A positive pressure, supple recommended. Whenever not known, respiratory proequipped with an organic of a positive pressure air sare not known or airborne spraying is performed in a	ied-air respirator concentrations dection must be vapour cartridge supplied respira solvent levels a	or or a self-contained breathing of isocyanates exceed the experience worn. At least an air-purifying and particulate pre-filters in the tor is mandatory when airbourned are 10 times the appropriate or with limited ventilation.	exposure limit or are ng respirator nust be worn. The use rne concentrations exposure limit or
Clothing/type Footwear/type Other/type Medical surveillance		Safety boots per local regremergency showers and employees on the safe us Medical supervision of all recommended. These showith pulmonary function the conditions, chronic bronch or sensitization should be diagnosed as sensitized to	ulations. eye wash statio e and handling employees who ould include pre est (FEC, FVC a nitis, other chron excluded from o an isocyanate	impervious protective clothings should be available. Educe of the product. In another than the product of the p	cate and train with isocyanates is edical examinations n asthmatic-type curring skin eczema ince a person is permitted. Once a
	0505101100	DUIVOIGAL AND GU			

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state	Liquid.
Colour	Clear to pale yellow.
Odour	Camphor-like.
Odour threshold (ppm)	Not available.
pH	
Melting / Freezing point (deg C)	< -58 C.
Initial boiling point / boiling range (deg C).	
Flash point (deg C), method	
Evaporation rate	
Flammability (solids and gases)	
Upper flammable limit (% vol)	
Lower flammable limit (% vol)	
Vapour pressure (mm Hg)	
Vapour density (air=1)	
Relative Density (Specific Gravity)	0.951.
Pounds / USG	
Solubility	Reacts slowly with water to liberate CO2 gas.
Partition coefficient — n-octanol/water	
Auto ignition temperature (deg C)	438.
Decomposition temperature	
Viscosity	
% Volatile by volume	
VOC (less water)	
,	

PRODUCT: 13406 DTM 2K URETHANE PRIMER ACTIVATOR

SECTION 10: STABILITY AND REACTIVITY

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

Reacts with; Alcohols. Amines. substances which contain active hydrogen. Reacts with water, with formation of carbon dioxide. Possibility of hazardous reactions.....

Avoid heat, spark, open flames. Moisture.

Conditions to avoid, including static discharge, shock or vibration Incompatible materails.....Hazardous decomposition products.....

Strong oxidizing agents. Acids. Alkalies. Nitrates. Plastics. Water. Alcohols. Amines. No hazardous decomposition products when stored and handled correctly. Under hot acidic conditions:. Isobutylene and acetic acid.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
tert-Butyl acetate	>2,230 mg/m3 4 hours rat	4,100 mg/kg (rat, oral); >2,000 mg/kg (rabbit, dermal)
Homopolymer of HDI	390-453 mg/m3 rat 4 hours	> 5,000 mg/kg (rat, oral); > 5,000 mg/kg (rabbit, dermal)

Route of exposure..... Symptoms related to the physical, chemical and toxicological characteristics Effects of acute exposure.....

Effects of chronic exposure.....

Eye contact. Skin contact. Inhalation.

Can be irritating to eyes and skin. May cause sensitization by skin contact. Harmful if swallowed. Harmful if inhaled. Inhalation may cause respiratory tract irritation. Inhalation of vapours or mist may cause drowsiness or dizziness. The substance may cause sensitization of the respiratory tract. Isocyanate vapour/mists at concentrations above the exposure limits can irritate (burning sensation) the mucous membranes in the respiratory tract. This can cause a runny nose, sore throat, coughing, chest discomfort, difficult breathing and reduced pulmonary functioning. Persons with pre-existing, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV with similar symptoms, as well as asthma attack. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema. Chemical or hypersensitive pneumonitis, with flu-like symptoms has also been reported. These symptoms can be

delayed up to several hours after exposure. Effects are usually reversible. May cause central nervous system effects such as headache, nausea, vomiting and weakness. Prolonged or repeated exposure may cause lung damage, including a decrease in lung function. Prolonged skin contact may cause reddening, swelling, rash, scaling, blistering, and in some cases, sensitization. As a result of previous repeated overexposure or a single large dose, certain individuals develop sensitization which will cause them to react to a later exposure to product at levels well below the exposure limit. Sensitization can be

permanent. Intentional misuse by deliberately concentrating and inhaling this product may

be harmful or fatal.

Isocyanates are known to cause skin and respiratory sensitization in humans. Animal tests Sensitizing capability of material..... have indicated that respiratory sensitization can result from skin contact with diisocyanates.

No component of this product present at levels greater than or equal to 0.1% is identified Carcinogenicity of material.....

as probable, possible or confirmed human carcinogen by IARC or ACGIH. Reproductive effects..... No data on reproductive effects were found in the literature sources consulted. Mutagenicity..... The data does not allow for an adequate assessment of the mutagenic effect.

Specific Target Organ Toxicity May cause drowsiness or dizziness. May cause respiratory irritation.

Acute Toxicity Estimate (ATE)..... ATE mix (oral): . >4000 mg/kg.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity..... Product data 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.

SECTION 14: TRANSPORT INFORMATION

TDG Classification..... UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - This product meets the Limited Quantity exemption when packaged in containers less than 5 liters. UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - Ltd Qty (1 litre). DOT Classification (Road)..... Refer to 49CRF 172.101 for additional non-bulk packaging requirements.
UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. Limited Quantity. IATA Classification (Air)..... Do not ship by air without checking appropriate IATA regulations.



PRODUCT: 13406 DTM 2K URETHANE PRIMER ACTIVATOR

SECTION 14: TRANSPORT INFORMATION

UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - EmS: F-E S-E. IMDG Classification (Marine).....

Limited Quantity. Check IMDG regulations for limited quantity exemptions.

Marine Pollutant.....Proof of Classification..... No.

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

A component of this product is not on the NDSL. CEPA status.....

TSCA inventory status..... All components are listed.

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

SARA Title III

Section 302 - extremely hazardous

substances

Section 311/312 - hazard categories....... Section 313.....

EPA hazardous air pollutants (HAPS)

40CFR63

California Proposition 65.....

None.

Immediate health, delayed health, fire hazard. None above De minimus % limit.

Hexamethylene diisocyanate. Methanol.

! 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. 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:.....

DISCLAIMER: All information appearing herein is based upon data obtained from Disclaimer:.... 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 ... 2020-05-13

data sheet