

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

RC-IA0010 Activator 2K Urethane Base 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

RC-IA0010 Activator 2K Urethane Base

Recommended use and restrictions on ... Paints.

Product identifier.....

Blend. Polyfunctional polyisocyanate. Health: 2 Fire: 4 Reactivity: 1. Chemical family.....

NFPA rating.....

H: 2 F: 4 R: 1. 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	DANGER.
Hazard Classification	
	Respiratory Sensitizer 1. Specific Target Organ Toxicity — Single Exposure — Category
	3. (respiratory system). (central nervous system).
Hazard Description	H225 Highly flammable liquid and vapour. H317 May cause an allergic skin reaction. H332
	Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if
Description	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. P284 In case of inadequate ventilation wear respiratory 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 . P304 + P340 - If inhaled remove person to
	fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory
	symptoms; call poison center or doctor. 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.
B: 1	P405 Store locked up.
Disposal	
Note	This product mixture has been classified based on its ingredients.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS			
CHEMICAL NAME AND SYNONYMS	CAS#	WT. %	
Homopolymer of HDI	28182-81-2	40-70	
tert-Butyl acetate	540-88-5	10-30	
N-Butyl Acetate	123-86-4	7-13	
2-Butoxyethyl Acetate	112-07-2	1-5	
Hexamethylene -1,6-Diisocyanate	822-06-0	0.1-1	

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



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. Consult a physician if irritation continues Immediately remove all contaminated clothing; flush skin with water for at least 15 minutes. 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. Rinse mouth with water. Give 1 to 2 glasses of water to drink. Do not induce vomiting. If Ingestion..... 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. The main hazard from ingestion is aspiration of the liquid into the lungs. Harmful if swallowed, in contact with skin or if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. High vapour concentrations may be irritating to Most important symptoms and effects, whether acute or delayed the respiratory tract. May cause mild skin irritation. May cause slight eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation.

Treat victims symptomatically. Skin: this compound is a known skin sensitizer. Treat Additional information..... symptomatically as for contact dermatitis or thermal burns. If burned, treat as thermal burn. Respiratory: this compound is a known pulmonary sensitizer. Treatment is essentially symptomatic. An individual having a skin or pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate. In all cases, if irritation persists seek medical attention. 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

Dry chemical. Carbon dioxide. Foam. In cases of larger fires, water spray should be used. Do not use water in a jet.

Flammable liquid. Oxides of carbon (CO, CO2). Oxides of nitrogen. Hydrogen cyanide. Isocyanates. Isocyanic acid. Dense black smoke. Other potentially toxic fumes.

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

Decontaminate spill area with decontamination solution. Area can then be washed with soap and water. 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. If temporary control of isocyanate vapour is required, a blanket of protein foam may be placed over spill. Use an aqueous solution of ammonia or other suitable isocyante neutralizing solution to clean up any unreacted prepolymer residue. Do not use neutralizing solution on large spills as heat may be generated. Use a Swype test kit to test for residual isocyanates.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....

Keep away from heat, sparks, and open flame. Ground handling equipment. Always adopt precautionary measures against build-up of static which may arise from appliances, handling and the containers in which product is packed. Avoid skin and eye contact. Avoid breathing vapours or mist. Use adequate ventilation. Wear respiratory protection if material is heated, sprayed, used in confined space, or if exposure limit is exceeded. Keep container closed when not in use. Handle and open container with care. Employees should wash hands and face before eating or drinking.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry and well ventilated area. Keep away from heat, sparks, and open flames. Store in tightly closed containers to prevent moisture contamination.



SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA AC	GIH TLV STEL	OSHA PEL	PEL STEL	NIOSH REL
tert-Butyl acetate	5 mg/m3 200 ppm 150 ppm	Not established Not established 200 ppm	5 mg/m3 200 ppm 150 ppm	Not established Not established 200 ppm	5 mg/m3 200 ppm 150 ppm / STEL 200 ppm
2-Butoxyethyl Acetate	20 ppm TLV	Not established	Not established	Not established	5 ppm
Hexamethylene -1,6-Diisocyanate	0.005 ppm	Not established	Not established	Not established	0.005 ppm
Appropriate engineering		Ventilate adequately. Exh environmental contaminat the current occupational e local exhaust is inadequat devices. Explosion-proof 6	ion. Vent work area to xposure limits. Avoid l e, persons exposed to	ensure airborne conce preathing mists; if gene	entrations are below ral ventilation or
Personal protective equipment Eye/type		Chemical safety goggles and full faceshield if a splash hazard exists. Contact lenses should not be worn when working with this chemical. Chemical resistant gloves. Practice good hygiene, wash thoroughly before handling any food. Wear adequate protective clothes. Wear long sleeves and trousers to prevent dermal exposure. Safety boots per local regulations. Be sure to use NIOSH approved respirator or equipment. Do not exceed the use limits of the respirator. Combination filter for gases/vapours; (f.e. EN 14387 Type A-P2). The use of a positive pressure air supplied respirator is mandatory when airborne concentrations are not known or airborne solvent levels are 10 times the appropriate exposure limit or spraying is performed in a confined space or with limited ventilation.			
Other/type		Eye wash facility and eme and eye wash stations sho	ould be available.		
Monitoring		Exposure levels must be r TLV is not exceeded.			
Medical surveillance		Persons with asthmatic-tyl diseases or recurrant skin isocyanates. Once a perso exposure can be permitted	eczema or sensitization is diagnosed as sen	on should be excluded t	rom working with

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state	1.062. 8.86. lbs/USG.
Coefficient of water\oil distribution	Not available.
Decomposition temperatureViscosity	Not available. No data.
VOC % Volatile by volume	159 g/l - 1.33 lb/USG. 36.44.

SECTION 10: STABILITY AND REACTIVITY



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Possibility of hazardous reactions..... Rapid polymerization will occur in the presence of water, amines, alkalis, and alcohol. Avoid skin contact. Reacts with substances which contain active hydrogen. Conditions to avoid, including staticdischarge, shock or vibration Avoid heat, spark, open flames.

Incompatible materails..... Water, Amines, Strong bases, Alcohols, Copper alloys. Reacts with substances which contain active hydrogen.

Hazardous decomposition products...... See hazardous combustion products section 5. The formation of gaseous decomposition products builds up pressure in tightly closed containers.

SECTION 11: TOXICOLOGICAL INFORMATION

		T	1
INGREDIENTS		LC50	LD50
Homopolymer of HDI		390-453 mg/m3 rat 4 hours	> 5,000 mg/kg rat oral; > 5,000 mg/kg rabbit dermal
tert-Butyl acetate		>2,230 mg/m3 4 hours rat	4,100 mg/kg rat oral >2,000 mg/kg rabbit dermal
N-Butyl Acetate		>29.2 mg/L 4 hour rat >23.4 mg/L aerosol 4 hour rat	>3200 mg/kg rat oral >5000 mg/kg rabbit dermal
2-Butoxyethyl Acetate		> 450 ppm rat 6h	1,600 mg/kg rat oral 1,480 mg/kg rabbit dermal
Hexamethylene -1,6-Diisocyanate		22 ppm 4 hours rat	738 mg/kg rat oral 593 mg/kg rabbit dermal
Acute Toxicity EstimateRoute of exposureEffects of acute exposure	Eye contact. Skin contact Williams	mg/kg . ATE mix (dermal):. >220 ct. Inhalation. Skin absorption. th skin, by ingestion, and by inhalat ul if absorbed through the skin. Brea	ion. May be irritating to the eyes
Effects of chronic exposure	Reports have associated brain and nervous syste single large dose, certail	se anesthetic effects and serious he d repeated or prolonged overexpose m damage. As a result of previous n individuals develop sensitization we uct at levels well below the exposur	ure to solvents with permanent repeated overexposure or a which will cause them to react to
Skin absorptionSensitizing capability of material		bed through the skin. to cause skin and respiratory sensit iratory sensitization can result from	
Carcinogenicity of material	No component of this p	roduct present at levels greater than	n or equal to 0.1% is identified
Reproductive effects Mutagenicity Specific Target Organ Toxicity	No data on reproductive The data does not allow	confirmed human carcinogen by la e effects were found in the literature v for an adequate assessment of the ritation. May cause drowsiness or c	e sources consulted. e mutagenic effect.

SECTION 12: ECOLOGICAL INFORMATION

Do not allow to enter waters, waste water or soil. Environmental..... Other adverse effects..... 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. Empty containers must be handled with care due to product residue.

SECTION 14: TRANSPORT INFORMATION

TDG Classification	
DOT Classification (Bood)	the Limited Quantity exemption when packaged in containers less than 5 liters.
DOT Classification (Road)	UN1263 - PAINT RÉLATED MATERIAL - Class 3 - Packing Group II - Ltd Qty (1 litre). Refer to 49CRF 172.101 for additional non-bulk packaging requirements.
IATA Classification (Air)	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. Limited Quantity.
7 TT Coldoomodilon (7 til)	Do not ship by air without checking appropriate IATA regulations.
IMDG Classification (Marine)	UN1263 - PAINT- Class 3 - Packing Group II - EmS: F-E S-E. Limited Quantity. Check
,	IMDG regulations for limited quantity exemptions.
Marine Pollutant	No.
Proof of Classification	
	2, 2014) - we certify that classification of this product is correct



SECTION 15: REGULATORY INFORMATION

Contains ingredient(s) not on the DSL. CEPA status..... TSCA inventory status..... All components are listed. This product is considered hazardous under the OSHA Hazard Communication Standard. OSHA. SARA Title III Section 302 - extremely hazardous substances Section 311/312 - hazard categories....... Immediate health, delayed health, fire hazard. None above De minimus % limit. EPA hazardous air pollutants (HAPS) Hexamethylene diisocyanate. Methanol. 40CFR63 *** ! WARNING: This product can expose you to chemicals including [see below], which California Proposition 65..... are known to the State of California to cause birth defects or other reproductive harm. (Methanol). For more information, go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

Prepared by: (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.

REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com.

APR 12/2019

Date of the latest revision of the safety ... data sheet