

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

12302 SLOW ACTIVATOR FOR 12300 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 12302 SLOW ACTIVATOR FOR 12300

Product identifier..... Paints. Recommended use and restrictions on ...

Chemical family..... NFPA rating..... HMIS.....

24 hour emergency number:.....

Aliphatic polyisocyanate. Solvent blend. Health: 2 Fire: 3 Reactivity: 1.

H: 2 F: 3 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 **.

SECTION 02: HAZARD IDENTIFICATION



Signal Word..... DANGER. Hazard Classification..... Flammable Liquid 2. Aspiration Toxicity 1. Skin Sensitizer — Category 1. Eye Irritation — Category 2A. Acute Toxicity (Inhalation) — Category 4. Respiratory Sensitizer — Category 1. Specific Target Organ Toxicity — Single Exposure — Category 3. (respiratory system). Carcinogenicity — Category 2. Reproductive Toxicity — Category 2. H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. Hazard Description..... H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H351 This product contains ingredients that are suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. 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, Prevention..... 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. 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. P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish. P303 + Response 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. P312 Call a POISON CENTER/doctor if you feel unwell. P301 + P310 If swallowed IMMEDIATELY CALL A POISON CONTROL CENTRE and follow instructions provided by the centre. P331 Do NOT induce vomiting. 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. P342 + P311 If experiencing respiratory symptoms; call poison center or doctor. P302 + P352 - If on skin: wash with plenty of water. P332 + P313 - If skin irritation occurrence get medical attention or advice. P362 + P364 - Take off contaminated clothing and wash before reuse. P308 + P313 If exposed or concerned, get medical advice/attention. P321 - For specific treatment see section 4 on this SDS. P405 Store locked up. P403 + P235 Store in well ventilated area. Keep cool. P403 + P233 Storage..... Store in a well ventilated area. Keep container tightly closed. P501 Dispose all unused, waste or empty containers in accordance with local regulations. This product mixture has been classified based on its ingredients. Disposal..... Note

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS					
CHEMICAL NAME AND SYNONYMS	CAS#	WT. %			
Propylene Glycol Monomethyl Ether Acetate	108-65-6	35-45			
2-Butoxyethyl Acetate	112-07-2	10-15			
Homopolymer of IPDI	53880-05-0	5-15			
Homopolymer of HDI	28182-81-2	5-15			
tert-Butyl acetate	540-88-5	5-10			
n-Butyl Acetate	123-86-4	3-7			
n-Amyl acetate	628-63-7	2-6			
Ethyl 3-Ethoxypropionate	763-69-9	2-6			
Methyl Isobutyl Ketone	108-10-1	2-6			
Solvent Naphtha, Light Aromatics	64742-95-6	1-3			
Diisobutyl Ketone	108-83-8	<2			
1,2,4-Trimethylbenzene	95-63-6	<2			
1,3,5-Trimethylbenzene	108-67-8	<2			
Propyl Benzene	103-65-1	<2			
Xylene	1330-20-7	<0.5			
Cumene	98-82-8	<0.5			
Isophorone Diisocyanate	4098-71-9	<0.2			

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. Check for and remove any contact lenses, if safe and easy to do so. Consult a physician if irritation continues.
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.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is
Ingestion	difficult, give oxygen, obtain medical attention. Rinse mouth with water. Give 1 to 2 glasses of water to drink. Do not induce vomiting. If spontaneous vomiting occurs have victim lean forward with head down to prevent
Most important symptoms and effects, whether acute or delayed	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.
Additional information	have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Treat victims symptomatically. Eye: stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation frequently. Workplace vapours have produced
	reversible corneal epithelial edema impairing vision. Skin: this compound is a known skin sensitizer. Treat 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. Ingestion: treat

SECTION 05: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing

Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products Special protective equipment and precautions 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.

symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of this compound. In all cases, if irritation persists seek medical attention. In the event of an incident involving this product ensure that medical

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.



authorities are provided a copy of this safety data sheet.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak/spill	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
Major spills	waterways. If temporary control of isocyanate vapour is required, a blanket of protein foam may be placed over spill. If transportation spill occurs in United States, call Chemtrec 1-800-424-9300. If transportation spill occurs in Canada, call Canutec at (613) 996-6666. Large quantities may be pumped into closed, but not sealed, containers for disposal.
Minor spills	Cover spill area with suitable absorbent material (e.g., sand, earth, sawdust, vermiculite, Oil-Dri, Kitty Litter, etc.). Saturate absorbent material with neutralizing solution. Recommended portion is ten parts neutralizing solution to one part spilled material. Suggested neutralization solution: 90% water + 5% concentrated ammonia + 5% detergent (dish soap). Add an additional layer of absorbent material. Use shovel to move absorbent material around to ensure that all spilled material comes in contact with the neutralizing solution. Shovel all absorbed material, including absorbent socks or spill pillows, into an appropriate salvage drum. Add further amounts of neutralizing solution. Allow to stand (covered loosely) for 48 to 72 hours, to allow any gases to escape.
Clean up	Decontaminate spill area with decontamination solution. Area can then be washed with soap and water.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling...... Keep away

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

	ACGIH TLV		OSHA PEL		NIOSH
INGREDIENTS	TWA	STEL	PEL	STEL	REL
Propylene Glycol Monomethyl Ether Acetate	Not established	Not established	Not established	Not established	Not established
2-Butoxyethyl Acetate	20 ppm TLV	Not established	Not established	Not established	5 ppm
Homopolymer of IPDI	Not established	Not established	Not established	Not established	Not established
Homopolymer of HDI	5 mg/m3	Not established	5 mg/m3	Not established	5 mg/m3
	Supplier: 0.5 mg/m3	(TWA)			
tert-Butyl acetate	200 ppm	Not established	200 ppm	Not established	200 ppm
	CA ON: 50ppm (TW	A), 150ppm (STEL)			
n-Butyl Acetate	50 ppm	150 ppm	150 ppm	200 ppm	150 ppm / STEL 200 ppm
	A), 150ppm (STEL)				
n-Amyl acetate	50 ppm/15 minutes	100 ppm	100 ppm	Not established	100 ppm
Ethyl 3-Ethoxypropionate	Not established	Not established	Not established	Not established	Not established
Methyl Isobutyl Ketone	50 ppm	75 ppm	100 ppm	Not established	50 ppm / STEL 75 ppm
	ON: 20 ppm (TWA),	75 ppm (STEL)			
Solvent Naphtha, Light Aromatics	Not established	Not established	500 ppm (2000 mg/m3) TWA	Not established	350 mg/m3 TWA
Diisobutyl Ketone	25 ppm	Not established	50 ppm	Not established	25 ppm
1,2,4-Trimethylbenzene	25 ppm	Not established	Not established	Not established	25 ppm
1,3,5-Trimethylbenzene	Not established	Not established	Not established	Not established	25 ppm
Propyl Benzene	Not established	Not established	Not established	Not established	Not established



SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

	ACGIH TLV		OSHA PEL		NIOCH
INGREDIENTS	TWA	STEL	PEL	STEL	NIOSH REL
Xylene	50 ppm CA ON: 100ppm	150 ppm (TWA); 150ppm (STEL)	100 ppm TWA	Not established	Not established
Cumene	50 ppm	Not established	50 ppm TWA	Not established	Not established
Isophorone Diisocyanate	0.005 ppm	Not established	Not established	Not established	0.005 ppm skin
Personal Protective Equ Eye/type Respiratory/type Gloves/ type Clothing/type Footwear/type Other/type Appropriate engineering		Chemical safety goggles. exists. Contact lenses show the exposure concentrations respiratory protection must exceed the use limits of the mist exposure limit exceed mandatory when airborned times the appropriate explimited ventilation. Chemical resistant gloves wash thoroughly before how was adequate protective exposure. Safety boots per local register by wash facility and emergence with the current occupational elocal exhaust is inadequately.	s of isocyanates excees to be worn. Use NIOSI/Ne respirator. NIOSH/N ded. The use of a pose concentrations are not cosure limit or spraying andling any food. The color of the	d the exposure limit or a Happroved respirator of MSHA approved respiration of MSHA approved respirative pressure air supplication of known or airborne solution. Nitrile rubber. Practice and trousers to place and trousers to place in close proximity, be cleaned by scrubber of ensure airborne concurred breathing mists; if general properties of the province of the second second control of the second control of	are not known, or equipment. Do not other recommended if ed respirator is livent levels are 10 oned space or with tice good hygiene, orevent dermal ors or filters to reduce entrations are below eral ventilation or
Monitoring Medical surveillance		Exposure levels must be TLV is not exceeded. Medical supervision of all recommended. These sh with pulmonary function to conditions, chronic broncl or sensitization should be diagnosed as sensitized t with asthmatic-type condi recurrant skin eczema or Once a person is diagnospermitted.	employees who hand hould include preemploest (FEC, FVC as a milities, other chronic resected excluded from working an isocyanate, no futions, chronic bronchit sensitization should be	le or come in contact wi byment and periodic me inimum). Persons with piratory diseases or rec g with isocyanates. On irther exposure can be p is, other chronic respira e excluded from working	ith isocyanates is dical examinations asthmatic-type curring skin eczema ace a person is permitted. Persons atory diseases or g with isocyanates.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state	Liquid.
Colour	Pale vellow.
Odour	Characteristic odour.
Odour threshold (ppm)	Not available.
pH	No data.
Melting / Freezing point (deg C)	Not available.
Initial boiling point / boiling range (deg C).	No data.
Flash point (deg C), method	4.4. (estimated).
Evaporation rate	Not available.
Upper flammable limit (% vol)	10.6.
Lower flammable limit (% vol)	0.9.
Vapour pressure (mm Hg)	Not available.
Vapour density (air=1)	No data.
Relative Density (Specific Gravity)	8.33 lbs/USG; 0.998.
Solubility	Reacts slowly with water to liberate CO2 gas.
Partition coefficient — n-octanol/water	Not available.
Auto ignition temperature (deg C)	No data.
Decomposition temperature	Not available.
Viscosity	No data.
VOC (less water)	4.69 lbs/USG.
% Volatile by volume	68.47.
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SECTION 10: STABILITY AND REACTIVITY

discharge, shock or vibration
Hazardous decomposition products.......
See hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS		LC50		LD50	
Propylene Glycol Monomethyl Ether Acetate		Not Available		8,532 mg/kg (rat oral) >5,000 mg/kg (rabbit dermal)	
2-Butoxyethyl Acetate		> 450 ppm rat 6h		1,600 mg/kg (rat, oral) 1,480 mg/kg (rabbit, dermal)	
Homopolymer of IPDI		Not Available		Not Available	
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		>33 mg/L vapour, (rat) dust/mist	5.2 mg/L	10760 mg/kg (rat, oral) mg/kg (rabbit, dermal)	14112
n-Amyl acetate		>976 ppm 4 hours rat		6500 mg/kg rat oral 8359 mg/kg rabbit dermal	
Ethyl 3-Ethoxypropionate		>998 ppm 6 hours		4,309 mg/kg rat oral mg/kg rabbit dermal	4,080
Methyl Isobutyl Ketone		8.2 - 16.4 mg/L 4 hou	ırs rat	2080 mg/kg rat oral >16 mg/kg rabbit dermal	,000
Solvent Naphtha, Light Aromatics		5.2 mg/L 4 hours, rat hours, rat	3400 ppm 4	>5,000 mg/kg rat oral >2 mg/kg rabbit dermal	,000
Diisobutyl Ketone		>2,300 ppm 4 hours		5,285 mg/kg rat oral >2,0 rat dermal)00 mg/kg
1,2,4-Trimethylbenzene		>2,000 ppm 48 hours	rat	3,280 mg/kg rat oral	
1,3,5-Trimethylbenzene		Not Available		Not Available	
Propyl Benzene				6,040 mg/kg rat oral	
Xylene		6350 ppm 4 hours rat		>3523 mg/kg rat oral	
Cumene		No Data		50 PPM, SKIN	
Isophorone Diisocyanate		123 mg/m3 4 hours ra	at	>1,000 mg/kg rat oral 1, mg/kg rat dermal	060
Route of exposure Effects of acute exposure	Eye contact. Skin contact. Inhalation. Skin absorption.				
Skin absorptionSensitizing capability of material	brain and nervous system damage. Prolonged vapour contact may cause conjunctivitis. Prolonged or repeated exposure may cause lung damage, including a decrease in lung function. 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. There is some evidence to suggest that long-term exposure to Toluene may affect hearing. May be harmful if absorbed through the skin.				
Carcinogenicity of material	Methyl Isobutyl Ketone is possibly carcinogenic to humans (IARC Group 2B). Cumene is listed by IARC in Group 2B as a possible carcinogen Solvent Naphtha is classified as a possible carcinogen.				e is

SECTION 11: TOXICOLOGICAL INFORMATION

Reproductive effects..... Xylene has been classified by The Commission on Health and Safety as causing reproductive effects. Methyl isobutyl ketone passes through the placental barrier. Solvent Naphtha is classified as a possible mutagen. Mutagenicity.....

SECTION 12: ECOLOGICAL INFORMATION

Environmental..... 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

Dispose of waste in accordance with all applicable federal, provincial/State and local regulations. Industrial incineration is the preferred method. Empty containers retain product residue; observe all precautions for the product. Decontaminate containers prior to disposal. Empty decontaminated containers should be crushed to prevent reuse. Do not heat or cut empty containers with electric or gas torch as vapours and gases may be toxic.

SECTION 14: TRANSPORT INFORMATION

UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - This product meets TDG Classification..... 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).

Refer to 49CRF 172.101 for additional non-bulk packaging requirements.

UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. Limited Quantity.

Do not ship by air whout checking appropriate FATA regulations. DOT Classification (Road)..... IATA Classification (Air)..... UN1263 - PAÍNT - Class 3 - Packing Group II - EmS: F-E S-E. Limited Quantity. IMDG Classification (Marine)..... Marine Pollutant..... No. 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

On Domestic Substances List (DSL). CEPA status.....

TSCA inventory status..... OSHA.....

SARA Title III

Section 302 - extremely hazardous substances

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

Section 313.....

EPA hazardous air pollutants (HAPS)

Disclaimer:.....

40CFR63

California Proposition 65.....

All components are listed.

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

Isophorone Diisocyanate.

Immediate health, delayed health, fire hazard.

1,2,4-Trimethylbenzene. Methyl Isobutyl Ketone.

Cumene. Hexamethylene diisocyanate. Methyl Isobutyl Ketone. Xylene.

*WARNING: This product contains a chemical known to the State of California to cause cancer. *WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

SECTION 16: OTHER INFORMATION

REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com. Prepared by:

(800) 387-7981. Telephone number:.....

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.

2021-11-15. Date of the latest revision of the safety ...

data sheet

2017-11-08

