PRO

SAFETY DATA SHEET

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

PRODUCT: 12304 ACTIVATOR MEDIUM FOR 12300

FORM

SECTION 01: IDENTIFICATION

Initial supplier identifier	Pro Form Products Ltd. 604 McGeachie Drive Milton, Ontario L9T3Y5 Tel (905) 878-4990 Fax (905) 878-1189
Product identifier	12304 ACTIVATOR MEDIUM FOR 12300
Recommended use and restrictions on	
USE	
Chemical family NFPA rating	Aliphatic polyisocyanate. Solvent blend.
HMIS	
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 **.
	i or medicar emergencies contact your local poison control centre .

SECTION 02: HAZARD IDENTIFICATION



Signal Word	DANGER.
Hazard Classification	
	Eye Irritant 2. Acute Toxicity 4. Specific Target Organ Toxicity — Single Exposure —
	Category 3. (respiratory system). (narcotic effects). Carcinogenicity — Category 2. Reproductive Toxicity — Category 2.
Hazard Description	H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters
	airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319
	Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory
	irritation. H336 May cause drowsiness or dizziness. H351 This product contains ingredients that are suspected of causing 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. P280 Wear protective gloves and eye protection. P264 Wash thoroughly
	after handling. 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
Response	the workplace. 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. P333 + P313 If skin irritation or rash occurs, get medical advice/attention. P362 +
	P364 - Take off contaminated clothing and wash before reuse. 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. P301 + P310 If swallowed IMMEDIATELY CALL A POISON
	CONTROL CENTRE and follow instructions provided by the centre. P331 Do NOT induce
	vomiting. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P308 + P313 If exposed or concerned, get medical advice/attention. P321 - For
	specific treatment see section 4 on this SDS.
Storage	P403 + P235 Store in well ventilated area. Keep cool. P405 Store locked up. P233 Keep
-	container tightly closed.
Disposal	
Note	This product mixture has been classified based on its ingredients.

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SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS CHEMICAL NAME AND SYNONYMS CAS # WT. % 98-56-6 20-30 4-Chlorobenzotrifluoride **Xylene** 1330-20-7 15-20 n-Butyl Acetate 123-86-4 15-20 Homopolymer of HDI 28182-81-2 5-15 Homopolymer of IPDI 53880-05-0 5-10 1-5 n-Amyl acetate 628-63-7 Ethyl 3-Ethoxypropionate 763-69-9 1-5 1-5 Methyl Isobutyl Ketone 108-10-1 112-07-2 1-3 2-Butoxyethyl Acetate Propylene Glycol Monomethyl Ether Acetate 108-65-6 1-3 Solvent Naphtha, Light Aromatics 64742-95-6 1-3 **Diisobutyl Ketone** 108-83-8 <2 95-63-6 <2 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene 108-67-8 <2 Cumene 98-82-8 < 0.5 Isophorone Diisocyanate 4098-71-9 < 0.2

SECTION 04: FIRST-AID MEASURES

Eye contact	least 15 minutes. Check for and remove any contact lenses, if safe and easy to do so.
Skin contact	Consult a physician if irritation continues. 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	
Ingestion	
Most important symptoms and effects, whether acute or delayed	
Additional information	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 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 authorities are provided a copy of this safety data sheet.

SECTION 05: FIRE-FIGHTING MEASURES

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



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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 waterways.
Major spills	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	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 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. Keep container closed when not in use. Handle and open container with care. Do not reseal if contamination is suspected. 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

					NIOSH
INGREDIENTS	TWA	STEL	PEL	STEL	REL
4-Chlorobenzotrifluoride	Not established	Not established	Not established	Not established	Not established
Xylene	50 ppm	150 ppm	100 ppm TWA	Not established	Not established
	CA ON: 100ppm (TV	VA); 150ppm (STEL)			
n-Butyl Acetate	50 ppm	150 ppm	150 ppm	200 ppm	150 ppm / STEL 200 ppm
	CA ON: 50ppm (TW)	A), 150ppm (STEL)			
Homopolymer of HDI	5 mg/m3	Not established	5 mg/m3	Not established	5 mg/m3
	Supplier: 0.5 mg/m3	(TWA)			
Homopolymer of IPDI	Not established	Not established	Not established	Not established	Not established
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)			
2-Butoxyethyl Acetate	20 ppm TLV	Not established	Not established	Not established	5 ppm
Propylene Glycol Monomethyl Ether Acetate	Not established	Not established	Not established	Not established	Not established
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

ECIS



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SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	CGIH TLV STEL	OSH/ PEL	A PEL STEL	NIOSH REL	
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 Equipment Eye/type Respiratory/type		Chemical safety goggles. Chemical safety goggles and full faceshield if a splash hazard exists. Contact lenses should not be worn when working with this chemical. Whenever concentrations of isocyanates exceed the exposure limit or are not known, respiratory protection must be worn. Use NIOSH approved respirator or equipment. Do not exceed the use limits of the respirator. 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.				
Gloves/ type		Chemical resistant gloves. Butyl rubber. Neoprene. Nitrile rubber. Practice good hygiene, wash thoroughly before handling any food.				
Clothing/type		Wear adequate protective clothes. Wear long sleeves and trousers to prevent dermal				
Footwear/type Other/type Appropriate engineering controls		exposure. Safety boots per local regulations. Eye wash facility and emergency shower should be in close proximity. Ventilate adequately. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Vent work area to ensure airborne concentrations are below the current occupational exposure limits. Avoid breathing mists; if general ventilation or local exhaust is inadequate, persons exposed to mists should wear approved breathing devices.				
Monitoring	Monitoring		Exposure levels must be monitored by accepted monitoring techniques to ensure that the			
Medical surveillance		TLV is not exceeded. Medical supervision of all recommended. These sh with pulmonary function te conditions, chronic bronch or sensitization should be diagnosed as sensitized t with asthmatic-type condir recurrant skin eczema or Once a person is diagnos permitted.	ould include preemplo est (FEC, FVC as a m hitis, other chronic res excluded from workin o an isocyanate, no fu tions, chronic bronchit sensitization should b	nyment and periodic mean nimum). Persons with a piratory diseases or recu g with isocyanates. On rther exposure can be p is, other chronic respira- e excluded from working	dical examinations asthmatic-type urring skin eczema ce a person is permitted. Persons tory diseases or g with isocyanates.	

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Colour	Liquid. Clear to pale yellow. Characteristic odour. Not available. No data. Not available. No data. 2 °C. (estimated). Not available. No data. 3.74 lbs/USG; 1.048. Reacts slowly with water to liberate CO2 gas. Not available. No data. Not available. No data. Not available. No data. S.74 lbs/USG; 424.2 g/L. 8.54 lbs/USG; 424.2 g/L.
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SECTION 10: STABILITY AND REACTIVITY

Chemical stability Reactivity	Avoid heat, s
Possibility of hazardous reactions	isocyanates.

Stable at normal temperatures and pressures. Avoid heat, sparks and flames. Contact with moisture and other materials will react with isocyanates. Contact with moisture, other materials that react with isocyanates, or temperatures above 177C, may cause polymerization.



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SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid, including staticWater, amines, strong bases, alcohols. Copper alloys.discharge, shock or vibrationHazardous decomposition products.....See hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS		LC50	LD50
4-Chlorobenzotrifluoride		4479 ppm	>6,800 mg/kg (rat oral); >2,700 mg/kg (rabbit dermal)
Xylene		6350 ppm 4 hours rat	>3523 mg/kg rat oral
n-Butyl Acetate		>33 mg/L vapour, 5.2 mg/L (rat) dust/mist	10760 mg/kg (rat, oral) 14112 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)
Homopolymer of IPDI		Not Available	Not Available
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 4,080 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
2-Butoxyethyl Acetate		> 450 ppm rat 6h	1,600 mg/kg (rat, oral) 1,480 mg/kg (rabbit, dermal)
Propylene Glycol Monomethyl Ether Acetate		Not Available	8,532 mg/kg (rat oral) >5,000 mg/kg (rabbit dermal)
Solvent Naphtha, Light Aromatics		5.2 mg/L 4 hours, rat 3400 ppm 4 hours, rat	>5,000 mg/kg rat oral >2,000 mg/kg rabbit dermal
Diisobutyl Ketone		>2,300 ppm 4 hours	5,285 mg/kg rat oral >2,000 mg/kg rat dermal
1,2,4-Trimethylbenzene		>2,000 ppm 48 hours rat	3,280 mg/kg rat oral
1,3,5-Trimethylbenzene		Not Available	Not Available
Cumene		No Data	50 PPM, SKIN
Isophorone Diisocyanate		123 mg/m3 4 hours rat	>1,000 mg/kg rat oral 1,060 mg/kg rat dermal
Route of exposure Effects of acute exposure	Eye contact. Skin contact. Inhalation. Skin absorption. Hazardous in contact with skin, by ingestion, and by inhalation. Irritating to eyes, skin and respiratory system. May be harmful if absorbed through the skin. Can result in irritation in the digestive tract. Aspiration of liquid into lungs can cause chemical pneumonitis. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea. Breathing of high vapour concentrations may cause anesthetic effects and serious health effects. Reports have associated repeated or prolonged overexposure to solvents with permanent brain and nervous system damage. Prolonged vapour contact may cause conjunctivitis.		
Skin absorption Sensitizing capability of material Carcinogenicity of material Reproductive effects Mutagenicity	Isocyanates are known to cause skin and respiratory sensitization in humans. Animal tests have indicated that respiratory sensitization can result from skin contact with diisocyanates. 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.		



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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

TDG Classification	
DOT Classification (Road)	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.
IATA Classification (Air)	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. Limited Quantity.
IMDG Classification (Marine)	Do not ship by air without checking appropriate IATA regulations. UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - EmS: F-E S-E. Limited Quantity.
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

CEPA status TSCA inventory status OSHA SARA Title III	On Domestic Substances List (DSL). All components are listed. This product is considered hazardous under the OSHA Hazard Communication Standard.
Section 302 - extremely hazardous substances	Isophorone Diisocyanate.
Section 311/312 - hazard categories Section 313 EPA hazardous air pollutants (HAPS) 40CFR63	Immediate health, delayed health, fire hazard. 1,2,4-Trimethylbenzene. Methyl Isobutyl Ketone. Xylene. Cumene. Hexamethylene diisocyanate. Methyl Isobutyl Ketone. Xylene.
California Proposition 65	*WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. *WARNING: This product contains a chemical known to the State of California to cause cancer.

SECTION 16: OTHER INFORMATION

Prepared by: Telephone number: Disclaimer:	REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com. (800) 387-7981. 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.
Review Date: Date of the latest revision of the safety data sheet	2021-11-15. 2017-10-31

