



Pro Form Products Ltd.
604 McGeachie Drive
Milton, Ontario, L9T 3Y5
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PRODUCT: RC-IB 1005 ECONOMY ALKYD CLEAR BASE HIGH VOC

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..... RC-IB 1005 ECONOMY ALKYD CLEAR BASE HIGH VOC

Recommended use and restrictions on .. Paints. or. Coatings. This product should not be used for any other purpose other than the use
use described in this section.

Chemical family..... Mixture.

NFPA rating..... Health: 3 Fire: 3 Reactivity: 0.

HMIS..... H: 3 F: 3 R: 0.

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..... Flammable Liquid 2. Aspiration Toxicity 1. Skin Irritation — Category 2. Skin Sensitizer — Category 1. Eye Irritation — Category 2A. Specific Target Organ Toxicity — Single Exposure — Category 3. (narcotic effects). Reproductive Toxicity — Category 2. Carcinogenicity — Category 2. Specific Target Organ Toxicity — Repeated Exposure — 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. 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. H373 May cause damage to organs through prolonged or repeated exposure.

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. P260 Do not breathe mist, vapours, or spray. 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.

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 . P301 + P310 If swallowed IMMEDIATELY CALL A POISON CONTROL CENTRE and follow instructions provided by the centre. P331 Do NOT induce vomiting. P308 + P313 If exposed or concerned, get medical advice/attention. 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. 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. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. 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..... P501 Dispose all unused, waste or empty containers in accordance with local regulations.

Note This product mixture has been classified based on its ingredients.

PRODUCT: RC-IB 1005 ECONOMY ALKYD CLEAR BASE HIGH VOC**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Toluene	108-88-3	15-40
Xylene	1330-20-7	7-13
Methyl N-Amyl Ketone	110-43-0	3-7
Butyl Acetate	123-86-4	3-7
Light aromatic naphtha*	64742-95-6	1-5
Ethylbenzene	100-41-4	0.5-5
Hexanoic acid, 2-ethyl-, zirconium salt	22464-99-9	0.1-1
Neodecanoic acid, calcium salt	27253-33-4	0.1-1
Methyl ethyl ketoxime (MEKO)	96-29-7	0.1-1
1,2,4-Trimethylbenzene	95-63-6	0.1-1
*Light aromatic naphtha (64742-95-6) contains: 1,2,4-trimethylbenzene (<32%), Cumene (<1.1%), and xylene (<2.2%) <<The actual concentration(s) withheld as a trade secret>> .		

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. Obtain medical attention.
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 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.
Most important symptoms and effects, whether acute or delayed	Harmful if swallowed, in contact with skin or if inhaled. The main hazard from ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. Causes skin and eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. Can cause skin sensitization. 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. Causes damage to organs through prolonged or repeated exposure.
Additional information.....	Treat victims symptomatically. The main hazard from ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. 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 extinguishing media.....	"Alcohol" foam, CO ₂ , dry chemical. The water spray reduces the intensity of the flames. However, water jets can promote the spread of fire. Do not use water in a jet.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	Oxides of carbon (CO, CO ₂). Hydrocarbon fumes and smoke.
Special protective equipment and 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.
Unusual fire / explosion hazards.....	Vapours can travel to a source of ignition and flash back causing an explosion and fire.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up Leak/spill.....	Keep away from heat, sparks and flames. Ventilate. Eliminate all sources of ignition. Contain the spill. Prevent runoff into drains, sewers, and other waterways. Avoid all personal contact. Evacuate all non-essential personnel. Absorb with an inert dry material and place in an appropriate waste container. Use non-sparking tools and equipment to pick up the spilled 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.
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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.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling..... Keep away from heat, sparks, and open flame. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapours or mist. This material is a static accumulator. Prevent accumulation of electrostatic charges. 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. Employees should wash hands and face before eating or drinking. Handle and open container with care.

Conditions for safe storage, including any incompatibilities Keep away from heat, sparks, and open flames. Store away from oxidizing and reducing materials. Store away from sunlight. Keep container closed when not in use.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Toluene	20 ppm	Not established	200 ppm	500 ppm 10 minutes	100 ppm / STEL 150 ppm
	CA ON: TWA: 20 ppm				
Xylene	50 ppm	150 ppm	100 ppm TWA	Not established	Not established
	CA ON: 100ppm (TWA); 150ppm (STEL)				
Methyl N-Amyl Ketone	50 ppm	Not established	100 ppm	465 mg/m3 TWA	Not established
	CA ON: 25 ppm; 115 mg/m3 (TWA)				
Butyl Acetate	150 ppm	200 ppm	150 ppm	200 ppm vacated	150 ppm - STEL 200 ppm
	CA ON: 50ppm (TWA), 150 ppm (STEL)				
Light aromatic naphtha*	Not established	Not established	500 ppm (2000 mg/m3) TWA	Not established	350 mg/m3 TWA
Ethylbenzene	100 ppm	125 ppm	100 ppm	Not established	100 ppm / STEL 125 ppm
	CA ON: 20ppm (TWA)				
Hexanoic acid, 2-ethyl-, zirconium salt	Not established	Not established	Not established	Not established	Not established
Neodecanoic acid, calcium salt	Not established	Not established	Not established	Not established	Not established
Methyl ethyl ketoxime (MEKO)	Not established		Not established		Not established
1,2,4-Trimethylbenzene	25 ppm	Not established	Not established	Not established	25 ppm
Respiratory/type.....	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.				
Eye/type.....	Wear eye protection if there is a risk of splashing. The selection of this equipment depends on the nature of the work to be performed and, if applicable, the type of respirator used.				
Gloves/ type.....	Chemical resistant gloves. Wear skin protection equipment. The selection of this equipment depends on the nature of the work to be done.				
Clothing/type.....	Wear adequate protective clothes.				
Footwear/type.....	Safety boots per local regulations.				
Other/type.....	Emergency showers and eye wash stations should be available. Employees should wash their hands and face before eating, drinking, or using tobacco products.				
Appropriate engineering controls.....	Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. Local mechanical exhaust ventilation should be used at sources of air contamination, such as open process equipment, or during purging operations, to capture gases and fumes that may be emitted. Standard reference sources regarding industrial ventilation (ie. ACGIH industrial ventilation) should be consulted for guidance about adequate ventilation. Explosion-proof exhaust ventilation.				

PRODUCT: RC-IB 1005 ECONOMY ALKYD CLEAR BASE HIGH VOC**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical state.....	Liquid.
Colour.....	Clear.
Odour.....	Characteristic odour. Aromatic.
Odour threshold (ppm).....	Not available.
pH.....	Not applicable.
Melting / Freezing point (deg C).....	Not available.
Initial boiling point / boiling range (deg C).....	> 100° C.
Flash point (deg C), method.....	4 °C. (estimate; lowest flash point ingredient).
Evaporation rate.....	No data.
Flammability (solids and gases).....	Flammable liquid.
Upper flammable limit (% vol).....	10.8.
Lower flammable limit (% vol).....	0.6.
Vapour pressure (mm Hg).....	No data.
Vapour density (air=1).....	>1.
Relative Density (Specific Gravity).....	1.03.
Pounds / USG.....	8.62. lbs/USG.
Solubility.....	No data.
Partition coefficient — n-octanol/water.....	Not available.
Auto ignition temperature (deg C).....	> 200°C.
Decomposition temperature.....	Not available.
Viscosity.....	350 cPs, #5, 20 RPM.
VOC LBS/GAL less water.....	4.58 lbs/USG.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Avoid heat, sparks and flames.
Chemical stability.....	Stable at normal temperatures and pressures.
Possibility of hazardous reactions.....	Will not occur under normal temperature and pressure.
Conditions to avoid, including static	Keep away from heat. Electrostatic charge.
discharge, shock or vibration	
Incompatible materials.....	Strong oxidizing agents.
Hazardous decomposition products.....	Material does not decompose at ambient temperatures. See hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Toluene	8000ppm (rat inhalation) 400ppm mouse (inhalation 24hr)	5,000 mg/kg (rat ora); 12,124 mg/kg (rabbit dermal)
Xylene	6350 ppm 4 hours rat	>3523 mg/kg rat oral
Methyl N-Amyl Ketone	Not Available	1,670 mg/kg rat oral 12,600 mg/kg rabbit dermal
Butyl Acetate	390 ppm (4 hr)	10768 mg/kg oral rat 17600 mg/kg dermal rabbit
Light aromatic naphtha*	10.2 mg/L (inhal, hr.)	>3400 mg/kg (oral, rat). >2000 mg/kg (dermal, rabbit)
Ethylbenzene	No data	3,500 mg/kg rat oral 17,800 mg/kg rabbit dermal
Hexanoic acid, 2-ethyl-, zirconium salt	>4.3 mg/L (4 hr., rat) aerosol	>5000 mg/kg (oral, rat)
Neodecanoic acid, calcium salt	Not established	Not established
Methyl ethyl ketoxime (MEKO)	> 4.8 MG/L 4-Hr., rat	2300-3700 mg/kg (oral, rat). >1000M g/kg (dermal, rabbit)
1,2,4-Trimethylbenzene	>2,000 ppm 48 hours rat	3,280 mg/kg rat oral
Route of exposure.....	Eye contact. Skin contact. Inhalation.	
Effects of acute exposure.....	Causes serious eye irritation. Causes skin irritation. This product is harmful if inhaled or swallowed. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. Inhalation of vapors may cause central nervous system depression resulting in headache, dizziness, drunkenness, fatigue, drowsiness, nausea and reduced performance during some neurobehavioral tests.	
Effects of chronic exposure.....	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.	

PRODUCT: RC-IB 1005 ECONOMY ALKYD CLEAR BASE HIGH VOC**SECTION 11: TOXICOLOGICAL INFORMATION**

Carcinogenicity of material.....	Contains ingredients classified as carcinogens. Ethylbenzene is classified as an A3 known animal 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. Chronic exposure to Ethylbenzene has been associated with reproductive effects among women. Toluene is fetotoxic in rats and mice at maternally toxic levels. Prolonged and repeated exposure of pregnant animals (>1500 ppm) to Toluene have been reported to cause adverse fetal developmental effects.
Sensitizing capability of material.....	May cause sensitization by skin contact.
Specific Target Organ Toxicity	May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure .

SECTION 12: ECOLOGICAL INFORMATION

Environmental.....	Do not allow to enter waters, waste water or soil.
Persistence and degradability.....	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. Empty containers must be handled with care due to product residue.
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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.
DOT Classification (Road).....	UN1263 - PAINT - Class 3 - Packing Group II - Ltd Qty (1 Liter). Refer to 49CRF 172.101 for additional non-bulk packaging requirements.
IATA Classification (Air).....	UN1263 - PAINT - Class 3 - Packing Group II. Limited Quantity. 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.....	Potential marine pollutant.
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.....	Contains ingredient(s) not on the DSL. A Ministerial Condition has been imposed on (an ingredient) in this substance. Contact supplier for additional information.
TSCA inventory status.....	All components are either listed or exempt from the TSCA. .
OSHA.....	This product is considered hazardous under the OSHA Hazard Communication Standard.
SARA Title III Section 302 - extremely hazardous	None.
Section 311/312 - hazard categories.....	Immediate health, delayed health, fire hazard.
Section 313.....	Ethylbenzene. Toluene. Xylene.
EPA hazardous air pollutants (HAPS) 40CFR63	Benzene. Cumene. Ethylbenzene. Toluene. Xylene.
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. (Benzene (D)). (Toluene). *** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer . (Benzene). (Silica, crystalline (airborne particles of respirable size)). (Cumene). (Ethyl benzene). For more information, go to www.P65Warnings.ca.gov .

SECTION 16: OTHER INFORMATION

Prepared by:	REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com .
Telephone number:.....	(800) 387-7981.
Disclaimer:.....	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.

PRODUCT: RC-IB 1005 ECONOMY ALKYD CLEAR BASE HIGH VOC

SECTION 16: OTHER INFORMATION

Review Date:..... 2022-11-30.
Date of the latest revision of the safety .. 2019-01-15
data sheet