



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

PRODUCT: KK3000-1 UNIVERSAL BINDER LOW VOC

SECTION 01: IDENTIFICATION

Product identifier..... KK3000-1 UNIVERSAL BINDER LOW VOC
 Other means of identification
 Chemical family..... Mixture.
 Recommended use and restrictions on .. Paints.
 use
 Initial supplier identifier..... Pro Form Products Ltd.
 604 McGeachie Drive
 Milton, Ontario L9T3Y5
 Tel (905) 878-4990 Fax (905) 878-1189
 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 **.
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 NFPA rating..... Health: 2 Fire: 4 Reactivity: 0.
 HMIS..... H: 2 F: 4 R: 0.

SECTION 02: HAZARD IDENTIFICATION



Signal Word..... DANGER.
 Hazard Classification..... Flammable Liquid 2. Eye Irritation — Category 2A. Skin Irritation — Category 2. Specific Target Organ Toxicity — Single Exposure — Category 3. (narcotic effects). (respiratory system). Carcinogenicity — Category 2. Reproductive Toxicity — Category 2.
 Hazard Description..... H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. 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. P261 Avoid breathing mists, vapours and sprays. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well ventilated area. 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 . P302 + P352 - If on skin: wash with plenty of water. P332 + P313 - If skin irritation occurs get medical attention or advice. 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. P362 + P364 - Take off contaminated clothing and wash before reuse. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P308 + P313 If exposed or concerned, get medical advice/attention. 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: KK3000-1 UNIVERSAL BINDER LOW VOC**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Acetic acid, methyl ester	79-20-9	30-60
4-Chlorobenzotrifluoride	98-56-6	10-30
Acetone	67-64-1	7-13
Methyl N-Amyl Ketone	110-43-0	3-7
Light Aliphatic Solvent Naphtha	64742-89-8	1-5
Xylene	1330-20-7	0.5-1.5
Ethylbenzene	100-41-4	0.1-1
n-Heptane	142-82-5	0.1-1

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

SECTION 04: FIRST-AID MEASURES

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.
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.
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. If irritation persists, obtain medical attention.
Most important symptoms and effects, whether acute or delayed	Causes eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Causes skin irritation. Harmful by inhalation. High vapour concentrations may be irritating to the respiratory tract. 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.
Additional information.....	Treat victims symptomatically. 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. In cases of larger fires, water spray should be used. Do not use water in a jet.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	Extremely flammable. Acetone is a highly flammable liquid. It is easily ignited in the presence of heat, an ignition source such as a naked flame or a spark (including electrostatic discharge). Aqueous solutions of acetone can also ignite. Acetone vapors are heavier than air and can travel a long distance to an ignition source and cause flashback. Thermal decomposition products are toxic. May include: 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. Keep run-off water from entering sewers and other waterways. Dike for water control.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	No action shall be taken involving any personal risk or without suitable training. Equipment should be grounded. Use non-sparking tools and equipment to pick up the spilled material. 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.
Methods and materials for containment and cleaning up	

PRODUCT: KK3000-1 UNIVERSAL BINDER LOW VOC**SECTION 06: ACCIDENTAL RELEASE MEASURES**

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

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. 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. Do NOT use compressed air for handling. 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 and dry place, for product integrity. Keep container closed when not in use. Store away from all sources of heat and ignition.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Acetic acid, methyl ester	200 ppm CA ON: 200ppm (TWA), 250ppm (STEV-C)	Not established	200 ppm	Not established	Not established	Not established
4-Chlorobenzotrifluoride	Not established	Not established	Not established	Not established	Not established	Not established
Acetone	250 ppm TLV CA ON AB: 500ppm (TWA); 750ppm (STEL)	500 ppm	1,000 ppm	Not established	250 ppm	
Methyl N-Amyl Ketone	50 ppm CA ON: 25 ppm; 115 mg/m3 (TWA)	Not established	100 ppm	465 mg/m3 TWA	Not established	Not established
Light Aliphatic Solvent Naphtha	Not established	Not established	Not established	Not established	Not established	Not established
Xylene	50 ppm CA ON: 100ppm (TWA); 150ppm (STEL)	150 ppm	100 ppm TWA	Not established	Not established	Not established
Ethylbenzene	100 ppm CA ON: 20ppm (TWA)	125 ppm	100 ppm	Not established	100 ppm / STEL 125 ppm	
n-Heptane	400 ppm CA ON: 400ppm (TWA), 500ppm (STEL)	500 ppm	500 ppm	Not Established	85 ppm / STEL 440 ppm	
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.					
Personal Protective Equipment						
Eye/type.....	Liquid chemical goggles. Chemical safety goggles and full faceshield if a splash hazard exists.					
Gloves/ type.....	Wear skin protection equipment. The selection of skin protection equipment depends on the nature of the work to be performed. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.					
Clothing/type.....	Wear adequate protective clothes.					
Footwear/type.....	Safety boots per local regulations.					
Respiratory/type.....	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.					
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.					

PRODUCT: KK3000-1 UNIVERSAL BINDER LOW VOC**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical state.....	Liquid.
Colour.....	Clear to milky.
Odour.....	Fruity characteristic.
Odour threshold (ppm).....	Not available.
pH.....	Not available.
Melting / Freezing point (deg C).....	Not available.
Initial boiling point / boiling range (deg C).	> 56 °C. (acetone).
Flash point (deg C), method.....	-18°C. (estimate; lowest flash point ingredient).
Evaporation rate.....	> 1.0.
Flammability (solids and gases).....	Not applicable. Flammable liquid.
Upper flammable limit (% vol).....	16.0.
Lower flammable limit (% vol).....	0.9.
Vapour pressure (mm Hg).....	Not available.
Vapour density (air=1).....	Not available.
Relative Density (Specific Gravity).....	0.991.
Pounds / USG.....	8.27.
Solubility.....	Not available.
Partition coefficient — n-octanol/water.....	Not available.
Auto ignition temperature (deg C).....	Not available.
Decomposition temperature.....	Not available.
Viscosity.....	Not available.
VOC (less exempt volatiles).....	3.05 lbs/USG; 365.5 g/L.
% Volatile by volume.....	14.19.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Product is stable; hazardous polymerization will not occur.
Chemical stability.....	Stable at normal temperatures and pressures.
Possibility of hazardous reactions.....	Hazardous polymerization will not occur.
Conditions to avoid, including static discharge, shock or vibration	Avoid heat, spark, open flames. Direct sunlight.
Incompatible materials.....	Strong oxidizing agents, acids, bases. Acetone may ignite or react violently with strong oxidizing agents, such as chromic acid, chromium trioxide, chromyl chloride, hot nitric acid, potassium permanganate (in an alkaline medium), or peroxides.
Hazardous decomposition products.....	No hazardous decomposition products when stored and handled correctly. See hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Acetic acid, methyl ester	16000 ppm (Rat) 4 h	LD50 5001 mg/kg (oral rat) LD50 5001 mg/kg (dermal rabbit)
4-Chlorobenzotrifluoride	4479 ppm	>6,800 mg/kg (rat oral); >2,700 mg/kg (rabbit dermal)
Acetone	50,100 mg/m3 8 hours, rat	5,800 mg/kg (rat oral)
Methyl N-Amyl Ketone	Not Available	1,670 mg/kg rat oral 12,600 mg/kg rabbit dermal
Light Aliphatic Solvent Naphtha	3400 ppm 4hr rat	3000 mg/kg dermal rat
Xylene	6350 ppm 4 hours rat	>3523 mg/kg rat oral
Ethylbenzene	No data	3,500 mg/kg rat oral 17,800 mg/kg rabbit dermal
n-Heptane	103 mg/m3 rat 4 hr	> 5000 mg/kg (oral, rat)
Route of exposure.....	Eye contact. Skin contact. Inhalation.	
Symptoms related to the physical, chemical and toxicological characteristics		
Effects of acute exposure.....	Causes serious eye irritation. Causes skin irritation. This product is harmful if inhaled or swallowed. Inhalation may cause respiratory tract irritation. Ingestion may result in gastrointestinal irritation, nausea, vomiting, and diarrhea.	
Effects of chronic exposure.....	Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. Prolonged or repeated skin contact may cause drying or cracking of skin. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal. May cause damage to organs through prolonged or repeated exposure.	

PRODUCT: KK3000-1 UNIVERSAL BINDER LOW VOC**SECTION 11: TOXICOLOGICAL INFORMATION**

Carcinogenicity of material.....	Acetone may contain trace amounts of benzene, a chemical known to cause cancer. Ethylbenzene is classified as an A3 known animal carcinogen. Naphtha (petroleum), hydro-treated light. Contains heptane. Xylene has been listed by IARC as a Group 3; not classifiable as to its carcinogenicity to humans.
Reproductive effects.....	Acetone has been shown to cause reproductive effects in rats by ingestion and inhalation. 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.
Mutagenicity.....	The data does not allow for an adequate assessment of the mutagenic effect.
Sensitizing capability of material.....	None known.
Specific Target Organ Toxicity	May cause drowsiness or dizziness. May cause respiratory irritation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity.....	Product data not available.
Persistence and degradability.....	Product data not available.
Bioaccumulative potential.....	Product data not available.
Mobility in soil.....	Product data not available.
Other adverse effects.....	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. Empty containers must be handled with care due to product residue.
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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.
DOT Classification (Road).....	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - Ltd Qty (1 litre). Refer to 49CFR 172.101 for additional non-bulk packaging requirements.
IATA Classification (Air).....	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. Limited Quantity. Do not ship by air without checking appropriate IATA regulations.
IMDG Classification (Marine).....	UN1263 - PAINT RELATED MATERIAL - 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.....	On Domestic Substances List (DSL).
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	None.
Section 311/312 - hazard categories.....	Immediate health, delayed health, fire hazard.
Section 313.....	Ethylbenzene. Xylene.
EPA hazardous air pollutants (HAPS) 40CFR63	Ethylbenzene. 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. (Toluene). *** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer . (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: KK3000-1 UNIVERSAL BINDER LOW VOC

SECTION 16: OTHER INFORMATION

Date of the latest revision of the safety .. 2022-08-18
data sheet