



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

**PRODUCT: 13300 POLYESTER PRIMER SURFACER (BUFF)**

### SECTION 01: IDENTIFICATION

Product identifier..... 13300 POLYESTER PRIMER SURFACER (BUFF)  
 Other means of identification  
 Chemical family..... Mixture.  
 Recommended use and restrictions on .. Primer.  
 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 \*\*.  
 -  
 NFPA rating..... Health: 2 Fire: 4 Reactivity: 1.  
 HMIS..... H: 2 F: 4 R: 1.

### SECTION 02: HAZARD IDENTIFICATION



Hazard Classification..... Flammable Liquid 2. Aspiration Toxicity 1. Skin Irritation — Category 2. Eye Irritation — Category 2A. Acute Toxicity (Inhalation) — Category 4. Specific Target Organ Toxicity — Single Exposure — Category 3. (respiratory system). Carcinogenicity — Category 1. Reproductive Toxicity — Category 2. Specific Target Organ Toxicity — Repeated Exposure — Category 1.  
 Signal Word..... DANGER.  
 Hazard Description..... H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H350 This product contains ingredients that may cause cancer. H361 Suspected of damaging fertility or the unborn child. H372 Causes 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 the mist, vapours, or spray. P264 Wash thoroughly after handling. P270 Do not eat drink or smoke while using this product. 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 . P301 + P310 If swallowed IMMEDIATELY CALL A POISON CONTROL CENTRE and follow instructions provided by the centre. P331 Do NOT induce vomiting. P312 Call a POISON CENTER/doctor if you feel unwell. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P314 - Get medical advice/attention if you feel unwell. P302 + P352 - If on skin: wash with plenty of water. P362 + P364 - Take off contaminated clothing and wash before reuse. 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. P308 + P313 If exposed or concerned, get medical advice/attention.  
 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: 13300 POLYESTER PRIMER SURFACER (BUFF)****SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Talc	14807-96-6	15-40
Styrene	100-42-5	10-30
Ethyl Acetate	141-78-6	5-10
Titanium Dioxide	13463-67-7	1-5
Crystalline silica	14808-60-7	0.1-1.5

&lt;&lt;The actual concentration(s) withheld as a trade secret&gt;&gt; .

**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.....	Do not induce vomiting. If ingestion is suspected, contact physician or poison control center immediately. 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. Obtain medical attention.
Most important symptoms and effects, ..... whether acute or delayed	The main hazard from ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. Harmful if swallowed, in contact with skin or if inhaled. High vapour concentrations may be irritating to the respiratory tract. Causes skin irritation. Causes eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. This product contains ingredients that are suspected of damaging fertility or the unborn child. This product contains ingredients that may cause cancer. 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 and unsuitable extinguishing ..... media	"Alcohol" foam, CO2, dry chemical. Water spray. Do not use water in a jet.
Specific hazards arising from the ..... hazardous product, such as the nature of any hazardous combustion products	Flammable liquid. Static discharge may ignite material. Thermal decomposition products are toxic. May include: Oxides of carbon (CO, CO2). Styrene.
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.

**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. 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 Leak/spill.....	Ventilate. Eliminate all sources of ignition. Use non-sparking tools and equipment to pick up the spilled material. Contain the spill. Avoid all personal contact. Evacuate all non-essential personnel. Prevent runoff into drains, sewers, and other waterways. 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.

**PRODUCT: 13300 POLYESTER PRIMER SURFACER (BUFF)****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 all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. 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 area, away from all sources of heat and ignition. 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
Talc	2 mg/m3 CA ON: 2mg/kg (TWA)	Not established	2 mg/m3 TWA	Not established	Not established
Styrene	20 ppm CA ON: 35ppm (TWA), 100ppm (STEL)	40 ppm	100 ppm	Not established	100 ppm
Ethyl Acetate	400 ppm CA ON: 400 ppm (TWA)	Not established	400 ppm	Not established	400 ppm
Titanium Dioxide	10 mg/m3 CA ON: 10 mg/m3 (TWA)	Not established	15 mg/m3	Not established	Not established
Crystalline silica	Not Established CA ON: 0.10 mg/m3 (Resp) TWA	Not Established	Not Established	Not Established	Not Established
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.....	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. Contact glove supplier for recommendations.				
Respiratory/type.....	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits. An air-purifying particulate/organic vapour cartridge respirator is required anytime inhalation of vapour above the exposure limit is possible. .				
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.				

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical state..... Thick liquid. Paste.

Colour..... Beige.

Odour..... Characteristic odour.

Odour threshold (ppm)..... Not available.

pH..... Not available.

Melting / Freezing point (deg C)..... Not available.

Initial boiling point / boiling range (deg C). > 78 C.

Flash point (deg C), method..... -4 °C. (estimate; lowest flash point ingredient).

Evaporation rate..... Not available.

Flammability (solids and gases)..... Flammable gel / paste.

Upper flammable limit (% vol)..... 12.8.

Lower flammable limit (% vol)..... 1.1.

Vapour pressure (mm Hg)..... Not available.

Vapour density (air=1)..... Not available.

Relative Density (Specific Gravity)..... 1.501.

Pounds / USG..... 12.52.

Solubility..... Negligible.

Partition coefficient — n-octanol/water..... Not available.

Auto ignition temperature (deg C)..... >190 °C.

**PRODUCT: 13300 POLYESTER PRIMER SURFACER (BUFF)****SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Decomposition temperature..... Not available.  
 Viscosity..... 1500 cPs. #4 @ 20 RPM. (Brookfield).  
 VOC (less exempt volatiles)..... 1.69 lbs/USG; 202.5 g/L.  
 VOC (less water)..... 1.69 lbs/USG; 202.5 g/L.

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity ..... No information available. Avoid heat, sparks and flames.  
 Chemical stability..... Stable at normal temperatures and pressures.  
 Possibility of hazardous reactions..... May occur on depletion of inhibitor.  
 Conditions to avoid, including static ..... Avoid heat, spark, open flames. Electrostatic charge.  
 discharge, shock or vibration  
 Incompatible materials..... Strong acids. Strong bases. Strong oxidizers. Amines.  
 Hazardous decomposition products..... Hazardous decomposition products depend on temperature, air supply, and the presence of other materials. See hazardous combustion products section 5.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Talc	Not available	Not available
Styrene	2770 ppm 4 hr rat	5000 mg/kg (rat oral)
Ethyl Acetate	16,000 ppm 6 hours rat	5,600 mg/kg (rat oral )
Titanium Dioxide	>6.8 mg/L (4 hr)	>10,000 mg/kg (rat, oral) >10,000 mg/kg (rabbit, dermal)
Crystalline silica	Not Available	Not Available
Route of exposure.....	Eye contact. Skin contact. Inhalation.	
Symptoms related to the physical, chemical and toxicological characteristics		
Effects of acute exposure.....	This product is harmful if inhaled or swallowed. Aspiration of liquid into lungs can cause chemical pneumonitis. Inhalation of vapours causes irritation to the nose, throat and respiratory tract. Can cause moderate skin irritation. Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Talc can be absorbed into the lungs and the digestive tract, and adversely affect lung function.	
Effects of chronic exposure.....	Repeated or prolonged eye and/or skin contact may produce a dehydrating effect. Repeated contact with the skin may cause dermatitis in sensitive individuals. Prolonged overexposure to crystalline silica (quartz) dust can cause fibrotic lung damage. May cause damage to organs as a result of repeated or prolonged exposure.	
Carcinogenicity of material.....	Quartz (Crystalline Silica) is listed by IARC in Group 1 as a carcinogen. IARC has classified Titanium Dioxide as a group 2B carcinogen. Styrene is classified by IARC as a Group 2B carcinogen. Oral studies of Styrene in mice and rats have results in an increased incidence of lung tumours.	
Reproductive effects.....	Styrene: Suspected of damaging fertility or the unborn child.	
Mutagenicity.....	Styrene has induced mutagenic effects in several in vitro assay systems.	
Specific Target Organ Toxicity .....	Causes damage to organs through prolonged or repeated exposure . 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 . This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Dispose of as an industrial waste in a manner acceptable to good waste management practice and in accordance with applicable local, provincial/State or federal regulations. Empty containers must be handled with care due to product residue.

**PRODUCT: 13300 POLYESTER PRIMER SURFACER (BUFF)****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 49CRF 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.....	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.....	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.....	Styrene.
EPA hazardous air pollutants (HAPS) 40CFR63.....	Ethyl acetate. Styrene.
California Proposition 65.....	*** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer . (Acetaldehyde). (Silica, crystalline (airborne particles of respirable size). (Styrene). (Titanium dioxide - airborne, unbound particles of respirable size). For more information, go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .

**SECTION 16: OTHER INFORMATION**

Prepared by: .....	REGULATORY AFFAIRS. Trivalent Data Systems Ltd. <a href="http://www.trivalent.com">www.trivalent.com</a> .
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.
Review Date:.....	2022-11-30.
Date of the latest revision of the safety data sheet .....	2020-12-18



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

**PRODUCT: LIQUID HARDENER**

### 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..... LIQUID HARDENER

Recommended use and restrictions on .. Accelerator and activator. This product should not be used for any other purpose other  
use than the ones described in this section.

Chemical family..... Organic peroxide.

NFPA rating..... Health: 3 Fire: 1 Reactivity: 2.

HMIS..... H: 3 F: 1 R: 2.

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..... Organic Peroxides Type D. Acute Toxicity 4. Skin corrosion 1. Eye Irritant 1.

Hazard Description..... H242 Heating may cause a fire. H302 Harmful if swallowed. H314 Causes severe skin  
burns and eye damage. H318 Causes serious eye damage.

Prevention..... P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P234  
Keep only in original packaging. P235 Keep cool. P240 Ground and bond container and  
receiving equipment. P280 Wear protective gloves and eye protection. P264 Wash  
thoroughly after handling. P270 Do not eat drink or smoke while using this product. P260  
Do not breathe mist, vapours, or spray.

Response ..... P301 + P330 + P331 If Swallowed: Rinse mouth. Do NOT induce vomiting. P310 -  
Immediately call your local poison control centre. P303 + P361 + P353 If on skin or in hair:  
take off all contaminated clothing immediately. Rinse thoroughly with water and use safety  
shower . P363 - Wash contaminated clothing before reuse. P304 + P340 - If inhaled  
remove person to fresh air and keep comfortable for breathing. 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. P321 - For specific treatment see  
section 4 on this SDS.

Storage..... P403 Store in a well ventilated area. P411 Store at temperatures not exceeding 60°C /  
140°F. P420 Store separately. P405 Store locked up.

Disposal..... P501 Dispose all unused, waste or empty containers in accordance with local regulations.

### SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Methyl ethyl ketone peroxide	1338-23-4	30-35
Methyl Ethyl Ketone	78-93-3	5-10
Hydrogen peroxide	7722-84-1	5-10

### 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. Get medical attention immediately.

Skin contact..... Remove all contaminated clothing and immediately wash the exposed areas with copious  
amounts of water for a minimum of 30 minutes or up to 60 minutes for critical body areas.  
Obtain medical attention immediately.

**PRODUCT: LIQUID HARDENER****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.....	Do not induce vomiting. If ingestion is suspected, contact physician or poison control center immediately. 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.
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 and unsuitable extinguishing media	"Alcohol" foam, CO <sub>2</sub> , dry chemical. Water fog. 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 <sub>2</sub> ). Ethane and Methane.
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. Fight fire like a fuel oil fire. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture.
Unusual fire / explosion hazards.....	During a fire, irritating and toxic gases and aerosols may be generated by thermal decomposition and combustion.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Leak/spill.....	Keep away from heat, sparks and flames. Avoid breathing vapours and skin contact. Remove sources of ignition if combustible or flammable vapours may be present and ventilate area. Evacuate all non-essential personnel. Use a self contained breathing apparatus. Contain the spill. Absorb with earth, sand, or another dry inert material. Scrape or shovel into containers. 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. Prevent material from contaminating soil and from entering sewers, waterways or low areas.
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**SECTION 07: HANDLING AND STORAGE**

Precautions for safe handling.....	Keep away from heat, sparks, and open flame. Ground handling equipment. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Always adopt precautionary measures against build-up of static which may arise from appliances, handling and the containers in which product is packed. Avoid breathing vapours or mist. Handle and open container with care. Employees should wash hands and face before eating or drinking.
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks, and open flames. Keep container closed when not in use. Store in a cool dry place away from organic materials.

**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	OSHA PEL STEL	REL	NIOSH
Methyl ethyl ketone peroxide	0.2 ppm (ceiling)	Not Established	Not Established	Not Established	Not Established
Methyl Ethyl Ketone	200 ppm CA ON: 200ppm (TWA), 300ppm (STEL)	300 ppm	200 ppm	Not established	200 ppm TWA
Hydrogen peroxide	1 ppm	Not Established	1 ppm TWA; 1.4 mg/m <sup>3</sup> TWA	Not Established	1 ppm TWA; 1.4 mg/m <sup>3</sup> TWA; 75 ppm IDLH
Eye/type.....	Liquid chemical goggles. Chemical safety goggles and full faceshield if a splash hazard exists.				
Gloves/ type.....	Chemical resistant gloves.				
Clothing/type.....	Wear adequate protective clothes. Wear long sleeves and trousers to prevent dermal exposure.				
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.				

**PRODUCT: LIQUID HARDENER****SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Other/type..... Emergency shower should be in close proximity. Eye wash facility should be close in proximity.  
 Appropriate engineering controls..... Local exhaust at points of emission. Use local exhaust or general room ventilation sufficient to prevent overexposure.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical state..... Liquid.  
 Colour..... Colourless.  
 Odour..... Slight.  
 Odour threshold (ppm)..... Not available.  
 Vapour pressure (mm Hg)..... No data.  
 Vapour density (air=1)..... No data.  
 pH..... No data.  
 Relative Density (Specific Gravity)..... 8.33 lb/usg - 1.00 g/mL.  
 Melting / Freezing point (deg C)..... No data.  
 Solubility..... Partially in water.  
 Initial boiling point / boiling range (deg C). No data.  
 Evaporation rate..... No data.  
 Flash point (deg C), method..... 94.  
 Auto ignition temperature (deg C)..... No data.  
 Upper flammable limit (% vol)..... No data.  
 Lower flammable limit (% vol)..... No data.  
 Partition coefficient — n-octanol/water..... Not available.  
 VOC (less water)..... No data.  
 Viscosity..... No data.

**SECTION 10: STABILITY AND REACTIVITY**

Chemical stability..... Stable at normal temperatures and pressures.  
 Reactivity ..... Avoid open flames, sparks, heat, electrical and static discharge, storage at high temperatures.  
 Conditions to avoid, including static ..... Strong oxidizers. Strong bases. Amines. Copper.  
 discharge, shock or vibration  
 Hazardous decomposition products..... Oxides of carbon (CO,CO2).  
 Possibility of hazardous reactions..... Hazardous polymerization will not occur.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Methyl ethyl ketone peroxide	200 ppm (4hr, rat) 170 mg/l (4hr, mouse)	6.86 ml/kg (rat, oral) 500 mg/kg (rabbit, dermal)
Methyl Ethyl Ketone	>5,000 ppm (6 hours, rat), 11000 ppm (45 minutes, mouse)	3,400 mg/kg (rat, oral), >8000 mg/kg (rabbit, dermal), 670 mg/kg (mouse, oral)
Hydrogen peroxide	No data	No data
Acute Toxicity Estimate (ATE).....	ATE (mix) oral: 1429 mg/kg. ATE (mix) inhalation vapour: 220 mg/L .	
Route of exposure.....	Eye contact. Skin contact. Inhalation. Ingestion.	
Effects of acute exposure.....	Corrosive to eyes. Contact with eyes can cause severe irritation. May cause eye damage. Contact with skin can cause severe irritation. Inhalation of vapours can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and asphyxiation. If ingested, this product may be absorbed and result in gastrointestinal irritation, nausea, vomiting, and diarrhea. May cause burns of the mouth, throat, esophagus, and stomach. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.	
Effects of chronic exposure.....	Prolonged or repeated overexposure can cause damage to eyes, skin, and mucous membranes. May aggravate pre-existing skin and eye disorders. May cause respiratory damage. Extended exposure to MEKP can cause liver and kidney damage.	
Carcinogenicity of material.....	IARC has classified Hydrogen Peroxide as a Group 3 - Not classifiable as to its carcinogenicity to humans.	
Reproductive effects.....	No known reproductive effects.	



**PRODUCT: LIQUID HARDENER****SECTION 12: ECOLOGICAL INFORMATION**

Environmental..... Do not allow to enter waters, waste water or soil.  
 Persistence and degradability..... Not available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Information on safe handling for disposal and methods of disposal, including any contaminated packaging . Empty containers must be handled with care due to product residue. Dispose of as an industrial waste in a manner acceptable to good waste management practice and in accordance with applicable local, provincial/State or federal regulations.

**SECTION 14: TRANSPORT INFORMATION**

TDG Classification..... UN3105 - ORGANIC PEROXIDE TYPE D, LIQUID, Class 5.2, PGII. Limited Quantity  
 Index: 0.125 L.  
 DOT Classification (Road)..... Organic Peroxide Type D, Liquid (Methyl Ethyl Ketone Peroxide) - UN 3105, Class 5.2, PG II.  
 IATA Classification (Air)..... Organic Peroxide Type D, Liquid (Methyl Ethyl Ketone Peroxide) - Class 5.2 - UN3105 - PGII.  
 IMDG Classification (Marine)..... Organic Peroxide Type D, Liquid (Methyl Ethyl Ketone Peroxide) - Class 5.2 - UN3105 - PGII.  
 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..... 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 ..... Hydrogen Peroxide (CAS 7722-84-1).  
 Section 311/312 - hazard categories..... Immediate health, delayed health. Fire hazard. Pressure. Reactive.  
 Section 313..... None.  
 EPA hazardous air pollutants (HAPS) 40CFR63 ..... None.  
 California Proposition 65..... This product does not contain any chemical(s) known to the State of California to cause cancer or reproductive toxicity.

**SECTION 16: OTHER INFORMATION**

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