



AUTOMOTIVE SYSTEMS WAREHOUSE
P.O. BOX 269
WILDWOOD; PA; 15091

PRODUCT: DI-99 FIBREGLASS POLYESTER RESIN



Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED FOR..... AUTOMOTIVE SYSTEMS WAREHOUSE
P.BOX 269
WILDWOOD
PA
15091

PRODUCT NAME..... DI-99 FIBREGLASS POLYESTER RESIN

MATERIAL USE..... AUTOMOTIVE.

CHEMICAL FAMILY..... MIXTURE.

HAZARD RATE

NFPA RATING..... HEALTH: 2 FIRE: 3 REACTIVITY: 0.

HMIS..... H: 2 F: 3 R: 0.

24 HOUR EMERGENCY NUMBER..... IN CANADA CALL CANTEC (613) 996-6666 IN THE UNITED STATES CALL CHEMTREC (800) 424-9300.

PREPARATION DATE..... JUNE 22, 2012.

Section 02: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route,Species	LC/50 Route,Species
POLYESTER RESIN	40-70	NOT ESTABLISHED	PROPRIETARY	NOT AVAILABLE	NOT AVAILABLE
STYRENE	30-60	50 PPM TWA OSHA	100-42-5	4920 MG/KG ORAL RAT	600 PPM TCLO IHL-HMN
METHANOL	0.5-1.5	200 ppm (SKIN)	67-56-1	5628 mg/kg RAT ORAL	64,000 ppm 4 HOURS RAT INHALATION

Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY EYE CONTACT. SKIN CONTACT. INHALATION.

SKIN CONTACT..... CAN CAUSE MODERATE IRRITATION, DEFATTING AND DERMATITIS. MAY CAUSE SENSITIZATION BY SKIN CONTACT.

SKIN ABSORPTION..... CHRONIC SKIN EXPOSURE TO SOLVENTS MAY CAUSE EFFECTS SIMILAR TO THOSE IDENTIFIED UNDER CHRONIC INHALATION.

EYE CONTACT..... CAN CAUSE REDNESS, IRRITATION, TISSUE DESTRUCTION.

INGESTION..... ASPIRATION OF MATERIAL INTO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. MAY BE HARMFUL OR FATAL IF SWALLOWED.

INHALATION (ACUTE)..... SOLVENT VAPOURS MAY BE IRRITATING TO THE EYES, NOSE AND THROAT, RESULTING IN REDNESS, BURNING AND ITCHING OF EYES, DRYNESS OF THE THROAT AND TIGHTNESS IN THE CHEST. BREATHING OF HIGH VAPOUR CONCENTRATIONS MAY CAUSE ANESTHETIC EFFECTS AND SERIOUS HEALTH EFFECTS.

INHALATION (CHRONIC)..... CHRONIC EXPOSURE TO ORGANIC SOLVENT VAPORS HAVE BEEN ASSOCIATED WITH VARIOUS NEUROTOXIC EFFECTS INCLUDING PERMANENT BRAIN AND/OR NERVOUS SYSTEM DAMAGE, KIDNEY, LIVER, BLOOD DAMAGE AND REPRODUCTIVE EFFECTS AMONG WOMEN. SYMPTOMS MAY INCLUDE NAUSEA, VOMITING, ABDOMINAL PAIN, HEADACHE, IMPAIRED MEMORY, LOSS OF COORDINATION, INSOMNIA AND BREATHING DIFFICULTIES. EXCESSIVE INHALATION OF VAPOURS CAN CAUSE RESPIRATORY IRRITATION, DIZZINESS, HEADACHE, NAUSEA AND ASPHYXIATION.

EFFECTS OF ACUTE EXPOSURE..... THE AROMATIC HYDROCARBON SOLVENTS IN THIS PRODUCT CAN BE IRRITATING TO THE EYES, NOSE AND THROAT. IN HIGH CONCENTRATION, THEY MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION AND NARCOSIS CHARACTERIZED BY NAUSEA, LIGHTHEADEDNESS AND DIZZINESS FROM OVEREXPOSURE BY INHALATION.

EFFECTS OF CHRONIC EXPOSURE..... BREATHING HIGH CONCENTRATIONS OF VAPOUR MAY CAUSE ANESTHETIC EFFECTS AND SERIOUS HEALTH EFFECTS. PROLONGED OR REPEATED EXPOSURE MAY RESULT IN SKIN SENSITIZATION. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THIS PRODUCT MAY BE HARMFUL OR FATAL.

PRODUCT: DI-99 FIBREGLASS POLYESTER RESIN**Section 04: FIRST AID MEASURES**

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. 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. IF SPONTANEOUS VOMITING OCCURS HAVE VICTIM LEAN FORWARD WITH HEAD DOWN TO TO PREVENT ASPIRATION OF FLUID INTO THE LUNGS. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
EYE CONTACT.....	IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES, KEEPING EYELIDS OPEN, WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. OBTAIN MEDICAL ATTENTION.
ADDITIONAL INFORMATION.....	TREAT POISONING VICTIMS SYMPTOMATICALLY . IN THE EVENT OF AN INCIDENT INVOLVING THIS PRODUCT ENSURE THAT MEDICAL AUTHORITIES ARE PROVIDED A COPY OF THIS MATERIAL SAFETY DATA SHEET.

Section 05: FIRE FIGHTING MEASURES

FLAMMABILITY.....	FLAMMABLE.
FLASH POINT (deg C), METHOD.....	31.
AUTO IGNITION TEMPERATURE (deg C)..	490.
UPPER FLAMMABLE LIMIT (% VOL).....	6.8.
LOWER FLAMMABLE LIMIT (% VOL).....	0.9.
EXTINGUISHING MEDIA.....	"ALCOHOL" FOAM, CO2, DRY CHEMICAL.
HAZARDOUS COMBUSTION PRODUCTS.	OXIDES OF CARBON (CO,CO2).
SENSITIVITY TO MECHANICAL IMPACT...	PROTECT AGAINST PHYSICAL DAMAGE.
SENSITIVITY TO STATIC DISCHARGE.....	POTENTIAL ELECTROSTATIC CHARGE BUILDUP WHEN POURING; GROUNDING OF EQUIPMENT IS RECOMMENDED. TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.
SPECIAL FIRE FIGHTING PROCEDURES.	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

LEAK/SPILL.....	VENTILATE. ELIMINATE ALL SOURCES OF IGNITION. CONTAIN THE SPILL. AVOID ALL PERSONAL CONTACT. SPILLED MATERIAL AND WATER RINSES ARE CLASSIFIED AS CHEMICAL WASTE, AND MUST BE DISPOSED OF IN ACCORDANCE WITH CURRENT LOCAL, PROVINCIAL, AND FEDERAL REGULATIONS. EVACUATE ALL NON-ESSENTIAL PERSONNEL. PREVENT RUNOFF INTO DRAINS, SEWERS, AND OTHER WATERWAYS. ABSORB WITH EARTH, SAND, OR ANOTHER DRY INERT MATERIAL. SHOVEL INTO SUITABLE UNSEALED CONTAINERS, TRANSPORT TO WELL-VENTILATED AREA (OUTSIDE) AND TREAT WITH NEUTRALIZING SOLUTION: MIXTURE OF WATER (80%) WITH NON-IONIC SURFACTANT TERGITOL TMN-10 (20%), OR; WATER (90%), CONCENTRATED AMMONIA (3-8%) AND DETERGENT (2%).
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Section 07: HANDLING AND STORAGE

HANDLING PROCEDURES.....	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. GROUND HANDLING EQUIPMENT. HANDLE AND OPEN CONTAINER WITH CARE. EMPLOYEES SHOULD WASH HANDS AND FACE BEFORE EATING OR DRINKING. KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
STORAGE NEEDS.....	KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES. KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE AWAY FROM OXIDIZING AND REDUCING MATERIALS. STORE AWAY FROM SUNLIGHT.

PRODUCT: DI-99 FIBREGLASS POLYESTER RESIN**Section 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

PROTECTIVE EQUIPMENT

EYE/TYPE.....	LIQUID CHEMICAL GOGGLES.
RESPIRATORY/TYPE.....	LOCAL EXHAUST VENTILATION IS RECOMMENDED. WEAR AN APPROPRIATE, PROPERLY FITTED RESPIRATOR WHEN CONTAMINANT LEVELS EXCEED THE RECOMMENDED EXPOSURE LIMITS.
GLOVES/ TYPE.....	CHEMICAL RESISTANT GLOVES.
CLOTHING/TYPE.....	WEAR ADEQUATE PROTECTIVE CLOTHES.
FOOTWEAR/TYPE.....	SAFETY BOOTS PER LOCAL REGULATIONS.
OTHER/TYPE.....	EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE AVAILABLE.
VENTILATION REQUIREMENTS.....	PROVIDE NATURAL OR MECHANICAL VENTILATION TO CONTROL EXPOSURE LEVELS BELOW AIRBORNE EXPOSURE LIMITS. LOCAL MECHANICAL EXHAUST VENTILATION SHOULD BE USED AT SOURCES OR 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. IN THE EVENT OF THERMAL DECOMPOSITION FROM OVERHEATING THE PRODUCT (DECOMPOSITION BEGINS AT 380 C), EVACUATE THE WORK AREA, SHUT DOWN EQUIPMENT, AND PROVIDE GENERAL VENTILATION TO THE ROOM PRIOR TO REOCCUPYING.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE.....	PASTE.
COLOUR.....	CLEAR, COLOURLESS TO AMBER.
ODOUR.....	HYDROCARBON ODOR.
ODOUR THRESHOLD (ppm).....	0.14 (STYRENE).
VAPOUR DENSITY (AIR=1).....	> 1.
VAPOUR PRESSURE (mm Hg).....	NOT AVAILABLE.
EVAPORATION RATE.....	MODERATE.
BOILING POINT (deg C).....	145.
pH.....	NOT APPLICABLE.
SOLUBILITY IN WATER (% W/W).....	SLIGHT.
COEFFICIENT OF WATER/OIL	NOT AVAILABLE.
DISTRIBUTION	
FREEZING POINT (deg C).....	-30.
VOC.....	437 g/L - 3.65 lb/USG.

Section 10: STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION.....	WILL NOT OCCUR.
STABILITY.....	STABLE AT NORMAL TEMPERATURES AND PRESSURES.
INCOMPATIBILITY.....	KEEP AWAY FROM HEAT. INCOMPATIBLE WITH STRONG OXIDIZERS.
REACTIVITY CONDITIONS.....	AVOID HEAT, SPARKS AND FLAME. EXPLOSIVE REACTIONS CAN OCCUR IN THE PRESENCE OF STRONG OXIDIZING AGENTS.
HAZARDOUS PRODUCTS OF DECOMPOSITION	OXIDES OF CARBON (CO,CO2).

Section 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMITS.....	STYRENE: ACGIH TWA 20 ppm - STEL 40 ppm; NIOSH REL 50 ppm - STEL 100 ppm; OSHA TWA PEL 100 ppm - CEILING 200 ppm .
IRRITANCY OF MATERIAL.....	IRRITANT.
SENSITIZING CAPABILITY OF MATERIAL.....	MAY CAUSE SENSITIZATION BY SKIN CONTACT.
CARCINOGENICITY OF MATERIAL.....	STYRENE IS CLASSIFIED BY IARC AS 'POSSIBLY CARCINOGENIC TO HUMANS' BASED ON 'INADEQUATE EVIDENCE' IN HUMANS, 'LIMITED EVIDENCE' IN ANIMALS AND OTHER 'RELEVANT DATA'. STUDIES IN HUMANS EXPOSED TO STYRENE FOR LONG PERIODS OF TIME HAVE NOT DEMONSTRATED ANY CARCINOGENIC EFFECTS.
TERATOGENICITY.....	NOT AVAILABLE.
MUTAGENICITY.....	NOT AVAILABLE.
REPRODUCTIVE EFFECTS.....	METHANOL IS LISTED ON CALIFORNIA'S PROPOSITION 65 AS CAUSING DEVELOPMENTAL TOXICITY.
SYNERGISTIC MATERIALS.....	NOT AVAILABLE.

Section 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL.....	DO NOT ALLOW TO ENTER WATERS, WASTEWATER OR SOIL.
BIODEGRADABILITY.....	NOT AVAILABLE.

PRODUCT: DI-99 FIBREGLASS POLYESTER RESIN**Section 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL..... EMPTY CONTAINERS MUST BE HANDLED WITH CARE DUE TO PRODUCT RESIDUE. THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE. AVOID RELEASE TO THE ENVIRONMENT.

Section 14: TRANSPORT INFORMATION

TDG CLASSIFICATION (ROAD)..... THIS PRODUCT MEETS THE CRITERIA FOR LIMITED QUANTITY WHEN PACKAGED IN CONTAINERS LESS THAN 5 LITRES. PACKAGES GREATER THAN 5 LITRES ARE CLASSIFIED AS POLYESTER RESIN KIT; CLASS 3; UN3269; PG III.
 IATA CLASSIFICATION (AIR)..... POLYESTER RESIN KIT - UN3269 - CLASS 3 - PACKING GROUP III.
 IMDG CLASSIFICATION (MARINE)..... POLYESTER RESIN KIT - UN3269 - CLASS 3 - PACKING GROUP III - EmS F-E, S-D.
 MARINE POLLUTANT..... NO.

Section 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION..... B2, D2A, D2B.
 CEPA STATUS..... ON DOMESTIC SUBSTANCES LIST (DSL).
 OSHA..... THIS PRODUCT IS CONSIDERED HAZARDOUS UNDER THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD.
 SARA TITLE III
 SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES NONE.
 SECTION 311/312 - HAZARD CATEGORIES IMMEDIATE HEALTH, DELAYED HEALTH, FIRE HAZARD.
 SARA SECTION 313..... STYRENE, METHANOL.
 EPA HAZARDOUS AIR POLLUTANTS STYRENE, METHANOL.
 (HAPS) 40CFR63
 TSCA INVENTORY STATUS..... ALL COMPONENTS ARE LISTED.
 CALIFORNIA PROPOSITION 65..... THIS PRODUCT CONTAINS METHANOL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE (DEVELOPMENTAL) REPRODUCTIVE TOXICITY.

Section 16: OTHER INFORMATION

PREPARED BY: REGULATORY AFFAIRS.
 TELEPHONE NUMBER:..... (800) 387-7981.
 PREPARATION DATE: Jun22/12



Pro Form Products Ltd.
604 McGeachie Drive
Milton; Ontario; L9T 3Y5
Canada

PRODUCT: LIQUID HARDENER
Section 01: Chemical product and company identification

Product name..... LIQUID HARDENER
 Manufactured for..... Pro Form Products Ltd.
 604 McGeachie Drive
 Milton, Ontario L9T3Y5
 Tel (905) 878-4990 Fax (905) 878-1189
 24 hour emergency number..... In Canada call Canutec (613) 996-6666 - In the United States call Chemtrec (800) 424-9300.
 Material use..... Accelerator and activator.
 Chemical family..... Organic peroxide.
 Preparation date..... January 21, 2014.
 Hazard rate
 NFPA rating..... Health: 3 Fire: 2 Reactivity: 2.
 HMIS..... H: 3 F: 2 R: 2.

Section 02: Hazards identification


Signal Word..... DANGER.
 Hazard Classification..... Acute Toxicity 3. Eye Damage 1. Skin Irritant 2. Aspiration Toxicity 1. STOT RE 2. STOT SE 2. Oxidizing Liquids 2. Flammable Liquid 4.
 Hazard Description..... H318 Causes serious eye damage. H311 Toxic in contact with skin. H331 Toxic if inhaled. H301 Toxic if swallowed. H304 May be fatal if swallowed and enters airways. H371 May cause damage to the liver and kidneys. H373 May cause damage to the liver and kidneys through prolonged or repeated contact. H227 Combustible liquid.
 Precautionary Statements..... P243 Take precautionary measures against static discharge. P251 Do not pierce or burn container, even after use. P261 Avoid breathing mists, vapours and sprays. 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. P273 Avoid release to the environment. P280 Wear protective gloves and eye protection. P202 Do not handle this product until all safety instructions have been read and understood. P284 In case of inadequate ventilation wear respiratory protection. P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P211 Do not spray on an open flame or other ignition sources. P233 Keep container tightly closed. P235 Keep cool. P240 Ground and bond container and receiving equipment. P241 Use explosion proof equipment. P242 Use only non-sparking tools.
 Note This product is an oxidizer.

Section 03: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS #	Wt. %
2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE	6846-50-0	40-70
METHYL ETHYL KETONE PEROXIDE	1338-23-4	15-40
HYDROGEN PEROXIDE	7722-84-1	1-5

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..... 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. 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..... 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.

PRODUCT: LIQUID HARDENER**Section 04: First aid measures**

Additional information..... Treat victims symptomatically. The main hazard from ingestion is aspiration of the liquid into the lungs. 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

Extinguishing media..... "Alcohol" foam, CO₂, dry chemical.
 Hazardous combustion products..... Oxides of carbon (CO,CO₂). Ethane and Methane.
 Special fire fighting procedures..... 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..... Ventilate. Eliminate all sources of ignition. 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. 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.

Section 07: Handling and storage

Handling procedures..... Keep away from heat, sparks, and open flame. 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. Ground handling equipment. Handle and open container with care. Employees should wash hands and face before eating or drinking.
 Storage needs..... 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

Protective equipment
 Eye/type..... Liquid chemical goggles. Chemical safety goggles and full faceshield if a splash hazard exists.
 Respiratory/type..... Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.
 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.
 Other/type..... Emergency shower should be in close proximity. Eye wash facility should be close in proximity.
 Ventilation requirements..... Local exhaust at points of emission. Use local exhaust or general room ventilation sufficient to prevent overexposure.

Exposure limits

Ingredients	ACGIH TLV		PEL	OSHA PEL		REL	NIOSH
	TWA	STEL		PEL	STEL		
2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE	No data	No data	No data	No data	No data	No data	
METHYL ETHYL KETONE PEROXIDE	No data	No data	No data	No data	No data	No data	
HYDROGEN PEROXIDE	1 ppm	No data	1 ppm TWA; 1.4 mg/m ³ TWA	No data	No data	1 ppm TWA; 1.4 mg/m ³ TWA; 75 ppm IDLH	

PRODUCT: LIQUID HARDENER**Section 09: Physical and chemical properties**

Physical state.....	Liquid.
Colour.....	Clear, red or orange.
Odour.....	Ketone odour.
Odour threshold (ppm).....	No data.
Vapour pressure (mm Hg).....	No data.
Vapour density (air=1).....	>1. Heavier than air.
pH.....	No data.
Specific gravity.....	1.17 @ 25C.
Freezing point (deg C).....	No data.
Solubility.....	Insoluble in water.
Boiling point (deg C).....	Decomposes at temperatures above 55C.
Evaporation rate.....	Slower than ether.
Flash point (deg C), method.....	82 Seta Flash Closed Cup.
Auto ignition temperature (deg C).....	398.
Upper flammable limit (% vol).....	No data.
Lower flammable limit (% vol).....	No data.
Coefficient of water/oil distribution.....	No data.
% Volatile by weight.....	Negligible.
VOC.....	None.
Viscosity.....	No data.

Section 10: Stability and reactivity

Stability.....	Unstable. Hazardous and uncontrollable decomposition may occur above 55C. The self-accelerating decomposition temperature is 60C.
Reactivity conditions.....	Avoid open flames, sparks, heat, electrical and static discharge, storage at high temperatures.
Incompatibility.....	Strong acids. Strong alkalis. Strong oxidizers.
Hazardous products of decomposition.....	See hazardous combustion products.
Hazardous polymerization.....	Hazardous polymerization will not occur.

Section 11: Toxicological information

Route of entry	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.....	The components of this product are not listed by IARC, NTP or regulated as a carcinogen by OSHA.

Toxicological Data

Ingredients	LC50-inh, rat	LD50-Oral, rat
2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE	No data	6,800 mg/kg Rat Oral; 4,400 uL/kg Rabbit Dermal
METHYL ETHYL KETONE PEROXIDE	200 ppm 4 Hr Rat	484 mg/kg Rat Oral; 500 mg/kg Rabbit Dermal
HYDROGEN PEROXIDE	No data	No data

Section 12: Ecological information

Environmental.....	Do not allow to enter waters, waste water or soil.
Biodegradability.....	No data.

Section 13: Disposal considerations

Waste disposal.....	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.
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PRODUCT: LIQUID HARDENER**Section 14: Transport information**

TDG Classification (Road).....	This product meets the Limited Quantity exemption when packaged in containers that are equal or less than 0.125 litre. When shipping this product in a package greater than 0.125 litre, the classification is "Organic Peroxide, Type D, Liquid (Methyl Ethyl Ketone Peroxide) - Class 5.2 - UN3105 - PGII".
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.

Section 15: Regulatory information

WHMIS classification.....	B3. C. D2B. F.
CEPA status.....	On Domestic Substances List (DSL).
Section 313.....	Methyl ethyl ketone.
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.
EPA hazardous air pollutants (HAPS) 40CFR63	None.
TSCA inventory status.....	All components are listed.
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.
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.