

**PRODUCT: 13523AZ LIQUID HARDENER 3.5 oz****SECTION 01: Chemical product and company identification**

Product name..... 13523AZ LIQUID HARDENER 3.5 oz  
 Manufactured for..... The Eastwood Company.  
 263 Shoemaker Rd.  
 Pottstown, Pa 19464  
 1800-345-11784  
 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.

**PRODUCT: 13523AZ LIQUID HARDENER 3.5 oz****SECTION 04: First aid measures**

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. 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**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
2,2,4-TRIMETHYL-1,3-PE NTANEDIOL 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
	0.2 ppm				
HYDROGEN PEROXIDE	1 ppm	No data	1 ppm TWA; 1.4 mg/m3 TWA	No data	1 ppm TWA; 1.4 mg/m3 TWA; 75 ppm IDLH
	1 ppm				
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.

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Ventilation requirements..... Local exhaust at points of emission. Use local exhaust or general room ventilation sufficient to prevent overexposure.

Exposure limits

**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**

INGREDIENTS	LC50	LD50
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
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		

**SECTION 12: Ecological information**

Environmental..... Do not allow to enter waters, waste water or soil.

Biodegradability..... No data.

**PRODUCT: 13523AZ LIQUID HARDENER 3.5 oz****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.

**SECTION 14: Transport information**

TDG Classification..... 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) ..... None.

40CFR63

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.

Preparation date: ..... JAN21/14