

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**TRADE NAME:** Dust, Sand and Dirt Hardener Solution**PRODUCT ID:** LC-DSDH**DATE:** 31 July 2014**SUPERSEDES DATE:** 27 January 2006**MANUFACTURER:** Tri Tech Forensics, Inc.**ADDRESS:** 4019 Executive Park Blvd.

Southport, NC 28461-8026

910-457-6600 www.tritechforensics.com

The intended uses of the chemical(s): This product is used in forensics. *Standard industrial classification (SIC):* 2835

The public cannot use the chemical; trained professionals use the chemical only.

24/7 EMERGENCY PHONE: INFOTRAC 800-535-5053 Call collect internationally 352-323-3500

24/7 HEALTH EMERGENCIES: 800-222-1222 National Poison Control Center.

SECTION 2 - HAZARDS IDENTIFICATION**GHS:****SIGNAL WORD: DANGER**

Avoid contact with eyes and skin. Keep out of reach of children.

The product may be harmful if it is inhaled or swallowed.

POTENTIAL HEALTH EFFECTS:**CODE OF HAZARD STATEMENTS:***Physical hazards.*

H228-Flammable liquid.

Health Hazards.

H315-Causes skin irritation.

H320-Causes eye irritation.

H333-May be harmful if inhaled.

Environmental hazards.

H402-Harmful to aquatic life.

CODE OF PRECAUTIONARY STATEMENTS:*General.*

P101-Keep out of reach of children.

P103-Read label before use.

Prevention statements.

P202-Do not handle until all safety precautions have been read and understood.

P261-Avoid breathing fume/gas/mist/vapor spray.

P262-Do not get in eyes, on skin or on clothing.

P264-Wash thoroughly after handling.

P270-Do not eat, drink or smoke when using this product.

P280-Wear protective gloves/protective clothing/eye protection/face protection.

Response statements.

P312-Call a POISON CENTER or doctor/physician if you feel unwell.

P331-DO NOT induce vomiting.

P340, Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P352, Wash with plenty of soap and water.

P362, Take off contaminated clothing and wash before reuse.

Storage.

P403-Store in a well-ventilated area.

ROUTES OF ENTRY: Eye contact, skin adsorption, ingestion and inhalation.**CARCINOGENICITY:** None.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	EINECS #	%	REACH Reg. #
Methanol	67-56-1	200-659-6	NA	Yes
Ethyl alcohol	64-17-5	200-578-6	NA	Yes
Isopropyl alcohol	67-63-0	200-661-7	NA	Yes
Methyl isobutyl ketone	108-10-1	203-550-1	NA	Yes

Note the individual percentages are proprietary.

See section 8 for Personal Protection (PPE)

SECTION 4 - FIRST AID MEASURES

INHALATION: Move to fresh air free from risk of further exposure. If person not breathing call 9-1-1, then apply rescue breathing. Seek medical attention as soon as possible.

EYE CONTACT: Flush with clean, lukewarm water raising upper and lower eyelids at low pressure for 15 minutes. Remove contact lenses, if present, after the first five minutes and continue to rinse the eyes. Seek medical attention if no relief.

SKIN CONTACT: Rinse area with clean water for 15-20 minutes. Call poison control center or doctor for treatment advice.

INGESTION: Call a poison control center or doctor immediately for treatment advice. DO NOT INDUCE VOMITING. Lower the head when person is vomiting to minimize entry into throat and lungs.

SECTION 5 - FIREFIGHTING MEASURES

FLASHPOINT AND METHOD: 60°F (15.6°C)

FLAMMABLE LIMITS: LEL = 6% UEL = 36%

EXTINGUISHING METHOD: Use dry chemicals, carbon dioxide and "alcohol resistant" foam.

FIRE OR EXPLOSION HAZARDS: Avoid open flames, sparks, ignition sources or static discharge. This material under complete combustion will form oxides of carbon and nitrogen.

SPECIAL FIREFIGHTING PROCEDURES: Keep upwind of fire. Full emergency equipment with self-contained breathing apparatus and full protective clothing to be worn by firefighters

SECTION 6 - ACCIDENTAL RELEASE MEASURES**SPILL OR LEAK PROCEDURES:**

Wear PPE; product is flammable. Keep away from sources of ignition. Avoid breathing vapour or mist. Isolate the area and prevent material from getting into waterways.

Absorb liquid with vermiculite, sand or other inert absorbent and place the collected material in a closed container. Use non-sparking tools.

Finish cleaning the area with small amounts of soap and water on the spill area.

SECTION 7 - HANDLING AND STORAGE**STORAGE TEMPERATURE:**

Keep container tightly closed and keep in cool dry area. Provide a cool well-ventilated area.

SPECIAL SENSITIVITY: Avoid contact with skin and eyes, wear PPE in (section 8).

HANDLING AND STORAGE PRECAUTIONS: Avoid breathing the vapor or mist. Use normal safety procedures and good personal hygiene. Wash thoroughly after use and before eating, drinking, chewing gum or using tobacco.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Use safety glasses or goggles (EN 166), there is potential for vapour or mist exposure to cause injury to the eyes.

SKIN PROTECTION: Wear chemical resistant glove (Nitrile.) Wear long sleeve shirts, long pants and shoes and socks.

RESPIRATORY PROTECTION: Wear respirator if the airborne conditions result in an aerosol forming ((NIOSH/MSHA TC 23C).

OCCUPATIONAL EXPOSURE LIMITS: OSHA PEL TWA; Methanol 260 mg/m³, Ethyl alcohol 1900 mg/m³, Isopropyl alcohol 980 mg/m³ and methyl isobutyl ketone 240 mg/m³.

ENGINEERING CONTROLS: Provide adequate ventilation when product is used. Eyewash and shower should be provided in mixing and loading areas.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear amber liquid.
Odor: Slight alcohol odor.
Solubility: Partially soluble in water, may appear as gel.
Specific gravity (water=1) <1
Boiling point: 170 °F (76.7 °C)
V.O.C. of material: 100%
Note: These physical data are typical values based on material tested but may vary from sample to sample..

SECTION 10 - REACTIVITY

STABILITY: This product is stable material under normal conditions of storage and handling.
HAZARDOUS POLYMERIZATION: Will not polymerize.
CONDITIONS TO AVOID: Avoid all ignition sources.
INCOMPATIBLES: Avoid strong oxidizing agents and acids. Avoid contact with metals.
DECOMPOSITION PRODUCTS: Product will burn and the products of complete combustion are oxides of carbon.

SECTION 11 - TOXICOLOGICAL/ECOLOGICAL INFORMATION

Oral LD₅₀ (rat) = NE LC₅₀ (rat) = NE
The significant routes of exposure are eyes, skin, ingestion and inhalation.

SECTION 12 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: The product is a flammable liquid, wear PPE as outlined in Section 8. Dispose according to the regulations of local, state and Federal regulatory agencies.

SECTION 13 - TRANSPORTATION INFORMATION

US DOT (ground) SHIPPING NAME:
UN1992, Flammable liquid, Toxic, N.O.S., (Isopropyl alcohol, methanol), I
IATA (air) SHIPPING NAME: CARGO AIRCRAFT ONLY
UN1992, Flammable liquid, Toxic, N.O.S., (Isopropyl alcohol, methanol), I
Use packing instruction 303, quantity limited to 30 L (7.92 gals)
IMO (water) SHIPPING NAME:
UN1992, Flammable liquid, Toxic, N.O.S., (Isopropyl alcohol, methanol), I
Use packing instruction P001.

SECTION 14 - REGULATORY INFORMATION

OSHA STATUS: Flammable.
TSCA STATUS: None.
CERCLA REPORTABLE QUANTITY: Methanol, 5000 lbs (2268 kgs) and Methyl isobutyl ketone 5000 lbs. (2268 kgs).
CALIFORNIA PROPOSITION 65: None.
RCRA STATUS: F003, Methanol and methyl isobutyl ketone.
SARA 311/312 HAZARD NOTIFICATION/REPORTING
IMMEDIATE Y FIRE Y SUDDEN RELEASE OF PRESSURE N
DELAYED Y REACTIVE Y
SARA TITLE III:
SECTION 302 EXTREMELY HAZARDOUS: None.
SECTION 311/312 HAZARD CATEGORIES: None.
SECTION 313 TOXIC CHEMICALS: Methanol, Isopropyl alcohol.
RIGHT TO KNOW: All listed ingredients are found in MA, NJ and PA.

EUROPEAN COMMUNITY:



WHMIS:



SECTION 15 – OTHER INFORMATION/APPROVALS

National Fire Protection Association (NFPA)			Hazardous Materials Identification System (HMIS)		
NFPA			HMIS		
		0 Least			
3	Health	1 Slight	3	Health	
4	Flammability	2 Moderate	4	Flammability	
1	Instability	3 High	1	Reactivity	
		4 Severe	H	PPE	

SECTION 16 – ABBREVIATIONS /DISCLAIMER

REASON FOR ISSUE: This new SDS complies with GHS regulations (Section 2 pictograms) and REACH compliance (Section 3).

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ABBREVIATIONS:

CAS #	Chemical Abstract Service Number	EINECS	European Inventory of existing Commercial Chemical Sales
°C	Celsius temperature scale	°F	Fahrenheit temperature scale
Prop.	Proprietary	PE	Personal Protective Equipment
TLV	Threshold Limit Value	TWA	Time Weighted Average
STEL	Short-term Exposure Limit	PEL	Permissible Exposure Limit
OSHA	Occupational Safety & Health	NIOSH	National Institute of Safety & Health
NFPA	National Fire Protection Agency	WHMIS	Workplace Hazardous Materials Information System
NTP	National Toxicology Program	IARC	Int. Agency for Research on Cancer
RCRA	Resource Conservation Recovery Act	TSCA	Toxic Substance Control Act
EC ₅₀	Effective Dose	LC ₅₀	Lethal Inhalation Concentration
LD ₅₀	Lethal Dose	CAS	Chemical Abstract Service Number
LEL	Lower explosive limit	UEL	Upper explosive limit
NDA	No Data Available	ND	Not determined
NE	None established	NA	Not Applicable
≤	Less Than or Equal To	≥	Greater Than or Equal To
CNS	Central Nervous System	CI	China
DSL	Canada	ECL	Korean Existing Chemicals List
EEC	European Economic Commission	ENCS	Japanese Existing and New Chemical List
EU	European Union	MAC	Netherlands
MAK	Germany	MITI	Japan
PICCS	Philippines	SWISS	Giffliste 1
UK	United Kingdom	USA	United States
VOC	Volatile organic content		
ACGIH	American Conference of Government Industrial Hygienists		
SARA	Superfund Amendments and Reauthorization Act		
AICS	Australian Inventory of Chemical Substances		
IARC	International Agency for Research on Cancer		
Taiwan	List of Toxic Chemical Substances regulated under Taiwan Toxic Chemical Substances Control Act of 1086		

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