spray it, glue it, done!™

hammer-tite™

THE ULTIMATE PROJECT GLUE

MSDS
ADHESVE & ACTIVATOR

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for the specific requirements.

U. S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTIFY (As used on label)	NOTE: Blank spaces are not permitted. If any item is not applicable or no information is available; the space must be marked to indicate it.
Kwik Fix® Hammer-tite™ Adhesive	

Section I

Manufacture's Name CHEMENCE, INC.	Emergency Telephone Number 1-800-424-9300 (International Number) 703-527-3887
Address (Number, Street, City, State and ZIP Code) 185 BLUEGRASS VALLEY PARKWAY	Telephone Number for Information (770)-664-6624
ALPHARETTA, GA 30005-2222	Data Prepared 10/02/05
	Signature of Preparer (Optional)

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specify Chemical Identity: Common Name(s)	OSHA PEL	ACGIH TLV	Other Limits Recommended	% Optional)
Ethyl Cyanoacrylate		7085-85-0		60–100

NE = Not Established

Section III – Physical/Chemical Characteristics

Boiling Point	More than 300°F	Specific Gravity (H2O =1) 20°C	1.1 @80°F
Vapor Pressure (mm Hg)	< 0.2mm @ 75°F	Melting Point	NE
Vapor Density (AIR = 1)	Approx. 3	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water:
Polymerized by water

Appearance and Odor:
Clear viscous liquid with a sharp, irritating odor.

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
>185°F (T.C.C.)	NA	N/DA	N/DA

Extinguishing Media:
Foam, CO_2, dry chemicals

Special Fire Fighting Procedures:
Use self-contained breathing apparatus.

Unusual Fire and Explosion Hazards:
Possible exothermic reaction leading to substrate ignition and fume generation.

Section V – Health Hazard Data

Threshold Limit Value:
Ethyl Cyanoacrylate: 0.2ppm TWA ACGIH (TLV); none OHSA (PEL)

Effects of overexposure:
Ingestion: Not likely. The product will polymerize rapidly, adhering to the mouth. Ensure breathing passages are clear. Saliva will separate any solidified product within two days. Prevent accidental swallowing. Inhalation: May be irritating to respiratory system above recommended exposure limits**.** Remove to fresh air. If breathing is difficult, seek medical attention. Prolonged and repeated overexposure to vapors may produce non-allergic asthma in sensitive individuals. Skin: Skin contact may cause burns. Eyes: Irritating to eyes. May cause eyelids to bond.

Emergency and First Aid Procedures:
Ingestion: Do not induce vomiting. Keep individual calm. Give large amounts of water to drink. See a doctor as soon as possible. Eyes: Immediately flush with warm water with at least 15 minutes, get prompt medical attention and apply a gauze patch. Cyanoacrylate will bond to eye protein and cause a lachrymatory effect that will help de-bond the adhesive. Keep eye covered until de-bonding is complete (usually within 1-4 days). Skin: Bonds skin in seconds. Large drops on clothing may cause burns. Immerse bonded surface in warm soapy water. Peel or roll surface apart with aid of blunt edge. Do not pull apart with direct opposing action. If skin is burned by a large drop, (due to heat generated by the polymerization) seek medical help. If lips are accidentally bonded, apply warm soapy water, encourage maximum wetting and pressure from saliva inside the mouth and peel or roll lips apart. Do not try to pull lips apart. Burns: Should be treated normally after the lump of cyanoacrylate is released from the tissue.

Section VI – Reactivity Data

Stability			Conditions to Avoid
	Unstable		
	Stable	X	

Incompatibility (*Materials to avoid)*
Polymerized by contact with water, alcohol, amines and/or alkalis.

Hazardous Decomposition Products:
None.

Hazardous Polymerization			Conditions to Avoid:
	May occur	X	
	Will not occur		

Section VII – Spill or Leak Procedures

Steps to be taken in case material is to be released or spilled:
Flood with water to polymerize. Soak up with an inert absorbent.

Waste Disposal Method:
Polymerize as above. Incinerate in accordance with EPA and local regulations.

Section VIII – Special Protective Information

Respiratory Protection *(Specify Type)*
None needed for normal use.

Ventilation	Local Exhaust	Special
	Positive down draft exhaust ventilation should be provided to maintain vapor concentration below TLV.	None
	Mechanical Not Applicable	Other None

Protective Gloves:	Eye Protection:
Polyethylene gloves. Do not use cotton gloves.	Safety glasses or goggles.

Other Protective Equipment:
Polyethylene/Polypropylene coats or aprons (not rubber or cotton)

Section IX – Special Precautions

Precautions to be taken in handling and storing:
Store at or below 75°F to maximize shelf life.

Other Precautions:
Avoid breathing vapors. Avoid contact with skin and eyes.

Section X – Regulatory Information

CERCLA/SARA Section 311-312: Immediate/Delayed health hazard, fire, reactive. WHMIS Hazard Class: B.3, D.2.B. All ingredients listed or exempt from list on TSCA inventory

Estimated HMIS Code: Health Hazard (2) Fire Hazard (2) Physical Hazard (1)

Section XI – Transportation Information

DOT (49CFR172):
Unrestricted [Less than 450 L]
NA1993, Combustible liquid, n.o.s. (cyanoacrylate ester), 3, III [More than 450 L]
IATA:
Unrestricted [Not more than 500mL]
UN3334, Aviation regulated liquid, n.o.s., (cyanoacrylate ester), 9 [More than 500 mL]

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May be used to comply with
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consulted for the specific requirements.

U. S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
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IDENTIFY (As used on label) KwikFix® Hammer-tite™ Aerosol Activator	NOTE: Blank spaces are not permitted. If any item is not applicable or no information is available; the space must be marked to indicate it.

Section I

Manufacture's Name CHEMENCE, INC.	Emergency Telephone Number 1-800-424-9300 (International Number) 703-527-3887
Address (Number, Street, City, State and ZIP Code)	Telephone Number for Information (770)-664-6624
185 BLUEGRASS VALLEY PARKWAY	Data Prepared 5/15/06
ALPHARETTA, GA 30005-2222	Signature of Preparer (Optional)

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specify Chemical Identity: Common Name(s) OSHA PEL ACGIH TLV Other Limits Recommended	% Optional)
Isopropyl Alcohol (Section 313 toxic chemical) (67-63-0)	60 - 70
Propane/n-butane blend (propellant) (68476-86-8)	10 - 30
N, N-Dialkyltoluidine (99-97-8)	< 1
Hydroquinone (123-31-9	< 1

Section III – Physical/Chemical Characteristics

Boiling Point	180°F (ISOPROPANOL)	Specific Gravity (H2O =1)	0.79
Vapor Pressure (mm Hg)	Approximately 100psi @ 70°F	Melting Point	N/A
Vapor Density (AIR = 1)	Approximately N/A	Evaporation Rate (ether = 1)	7.7
Solubility in Water	Soluble	VOC	99.9% 789g/liter (EPA method 24)
Appearance and Odor	Clear colorless aerosol with a slight alcohol odor.		

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used)	53°F, TCC (Isoprapanol)	Flammable Limits Extremely-flammable aerosol per ASTM D-3065-77 Flame extension test.	LEL N/A	UEL N/A

Extinguishing Media: Dry chemical, CO2, foam

Special Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: Direct water jet will spread burning material. Combustion products are very toxic and highly irritating. Keep containers cooled with water to prevent bursting.

Section V – Health Hazard Data: Danger Contents under pressure. Extremely Flammable liquid and vapor. Harmful if swallowed, absorbed through skin or inhaled. Causes eye, skin and respiratory tract irritation.

Threshold Limit Value: Isopropanol: OSHA PEL: 400ppm TWA, ACGIH 200ppm STEL 400 PPM TWA
Propellant: OSHA PEL: 1000ppm TWA, ACGIH1000ppm STEL 400 PPM TWA

Effects of overexposure: Ingestion: If significant quantity ingested, can cause gastroenteric irritation, narcosis and injury to the kidneys and liver. Small amounts are not likely to cause harmful effects.
Inhalation: Vapor and mists irritate the respiratory system. May cause nausea, headache, dizziness, convulsions or vomiting. High doses may cause adverse effects in the liver, kidney or lungs.
Skin & Eyes: Irritation on contact. May cause skin erythema. Eye contact will cause redness or tearing.

Emergency and First Aid Procedures:
Ingestion: **Do not** induce vomiting unless directed to do so by medical personnel. Keep individual calm. Obtain medical attention. [Note to physician: Aspiration may cause pulmonary edema or aspiration pneumonia.]
Inhalation: Remove to fresh air (Oxygen or artificial respiration if needed). Obtain medical attention.
Skin: Wash with soap and water. Remove clothing and launder before reuse.
Eyes: Flush with plenty of water, contact a physician.

Section VI – Reactivity Data

Stability	Unstable		**Conditions to Avoid:** Extremely flammable liquid and vapors, avoid all possible sources of ignition.
	Stable	X	(Under normal conditions)
Incompatibility (*Materials to avoid)*			Strong oxidizers, sources of ignition.
Hazardous Decomposition Products: Combustion yields oxides of carbon and oxides of nitrogen.			
Hazardous Polymerization	May occur		**Conditions to Avoid**: N/A
	Will not occur	X	

Section VII – Spill or Leak Procedures

Steps to be taken in case material is to be released or spilled: Eliminate all sources of ignition in the spill area. Permit only properly protected workers with skin, eye protection and self-contained breathing gear. Absorb small spills with absorbent. Treat as a hazardous waste. Avoid ground water contamination.

Waste Disposal Method: When disposing of spent containers, do not puncture or incinerate. Dispose of in accordance with local, state and federal regulations. RCRA Hazardous waste D001I Ignitable.

Section VIII – Special Protective Information

Respiratory Protection *(Specify Type)* Above TLV. NIOSH/MESSA Approved respirator.

Ventilation	**Local Exhaust**	Recommended	**Special**	None
	Mechanical	Not Applicable	**Other**	None

Protective Gloves: Natural rubber or neoprene gloves.	**Eye Protection**: Chemical splash goggles recommended.

Other Protective Equipment: Protective plastic or rubber apron.

Section IX – Special Precautions

Precautions to be taken in handling and storing: Keep away from heat, sparks and flame. Store in a cool, dry place. Avoid contact with eyes, avoid vapor.

Other Precautions: Keep container closed when not in use, keep in well-ventilated area.

Section X – Regulatory Information

Cercla/Sara Section 311/312: Fire, Immediate Health Hazard, Delayed health Hazard
WHIMIS hazard Class: A, B.2, D.2.A, D.2.B
TSCA 8 (b) Inventory status: All components are listed or are exempt from listing on TSCA and DSL
Estimated HMIS Code: Health Hazard 2, Fire Hazard 3, Reactivity 0

Section X – Transportation Information

DOT (49 CFR 172)
Proper Shipping Name: Aerosols, flammable Packaging Group: None
Hazard Classification: 2.1 Identification Number: UN1950
Exceptions: Consumer Commodity ORM-D (Not more than 1 liter)
ICAO/IATA Proper Shipping Name: Aerosols, flammable; Division 2.1 UN# 1950
May qualify as Consumer Commodity ID8000 (Not more than 500ml)
IMO/IMDG Aerosols, flammable; Division 2.1 UN# 1950
Exceptions: Limited quantity (Not more than 1 liter)
Marine pollutant: None