Safety Data Sheet

Material: **SilCote - Part B** Version: 2 Revision Date: 4/11/2015

Prepared in accordance with GHS standard
& Annex II - EC regulation 1907/2006 and amendments **SDS No: 150401**

SECTION 1. IDENTIFICATION

Material Identification: SilCote - Part B
Chemical Name: Amine Functional Polysiloxane-Silane
Chemical Classification: Silicone
CAS #:
Recommended Product Usage
Epoxy-Siloxane curing agent

Company ID: Liquiguard Technologies, Inc.
5807 N Andrews Way
Fort Lauderdale, FL. 33309
USA
954-566-0996

EMERGENCY RESPONSE TELEPHONE NUMBER: **(**954) 566-0996 (Normal Business Hours)

USE IN CASE OF A DANGEROUS GOODS EMERGENCY

SECTION 2. HAZARD(S) IDENTIFICATION

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 1B
	Serious eye damage/eye irritation	Category 1
OSHA defined hazards	Not classified.	

Label elements

Signal word Danger
Hazard statement Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage.

Precautionary statement

Prevention	Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/ international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information **7**0% of the mixture consists of component(s) of unknown acute inhalation toxicity.):

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name or Synonym	CAS No.	EINECS/ ELINCS No.	% (w/w)	GHS Classification	Classification accordingto Directive 67-548/EEC
	Triethoxysilylpropanamine	919-30-2		**>60**		
	Di-methyl-3-aminopropyl terminated			**<40**		

Composition comments Components not listed are either non-hazardous or are below reportable limits.

SECTION 4. FIRST AID MEASURES

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Call a physician or poison controlcenter immediately.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician orpoison control center immediately. Chemical burns must be treated by a physician. Washcontaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, ifpresent and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. Ifvomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, anddelayed Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms mayinclude stinging, tearing, redness, swelling, and blurred vision. Permanent eye **acute d**amage includingblindness could result.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions toprotect themselves.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media Foam. Dry chemical powder. Carbon dioxide (CO2). Water spray.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising fromthe chemical During fire, gases hazardous to health may be formed. This material may generate formaldehydeat temperatures greater than 150°C (300°F) in air or the presence of oxygen.

Special protective equipmentand precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting Move containers from fire area if you can do so without risk.

equipment/instructions	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	The product is not flammable. This material is reactive with water, but the reaction will notsignificantly increase the fire severity.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see Section 13 of the SDS
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin, eyes and clothing. Do not breathe mist or vapor. Do not use in areaswithout adequate ventilation. Wear appropriate personal protective equipment. Observe goodindustrial hygiene practices. When using, do not eat, drink or smoke. Wash contaminated clothingbefore reuse. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materials(see Section 10 of the SDS).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	Occupational Exposure Limits are not relevant to the current physical form of the product.
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation ratesshould be matched to conditions. If applicable, use process enclosures, local exhaust ventilation,or other engineering controls to maintain airborne levels below recommended exposure limits. Ifexposure limits have not been established, maintain airborne levels to an acceptable level. Eyewash facilities and emergency shower must be available when handling this product. This product may be capable of generating 0.1 ppm or greater formaldehyde vapors under certainuse conditions. According to OSHA 29 CFR 1910.1048, formaldehyde vapors may be consideredhazardous if workplace airborne concentrations exceed 0.1 ppm.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposurelimits (where applicable) or to an acceptable level (in countries where exposure limits have notbeen established), an approved air supplied air respirator must be worn.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, suchas washing after handling the material and before eating, drinking, and/or smoking. Routinely washwork clothing and protective equipment to remove contaminants.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state / form.....: liquid
Colour .....: clear to light yellow
Odour .....: amine like

Safety parameters

Property:	**Value:**	**Method:**
Melting point / melting range	: < -70 °C (< -94 °F)	
Boiling point / boiling range	: 217 °C (422 °F) at 1013 hPa	
Flash point	: 93 °C (199 °F)	(ISO 2719)
Ignition temperature	: 300 °C (572 °F)	(DIN 51794)
Lower explosion limit (LEL)	: 0.8 %(V)	(Lit.)
Upper explosion limit (UEL)	: 4.5 %(V) (Lit.)	
Vapour pressure	: < 1 hPa at 20 °C (68 °F)	
Density	: 0.95 g/cm³ at 25 °C (77 °F)	(DIN 51757)
Water solubility / miscibility	: partly miscible	
pH-Value	: approx. 10 at 25 °C (77 °F) (10 g/l H_2O)	
Distribut. coeff. n-octanol/water	: not applicable	
Viscosity (dynamic)	: approx. 8-15mPa.s at 25 °C (77 °F)	(DIN 51562)

Further information

Solubility in water: Hydrolytic decomposition occurs. Explosion limits for released ethanol: 3.5 - 15%(V).
Thermal decomposition.....: stable to > 120 °C (> 248 °F)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	Water, moisture.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	This material may generate formaldehyde at temperatures greater than 150°C (300°F).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns. Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms mayinclude stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage includingblindness could result.

Information on toxicological effects

Acute toxicity Harmful if swallowed.
After single oral exposure moderate toxic effects are to be expected. After single dermal exposure minor toxic effects are to be expected. Aerosols of amino-functional silanes (from organic solutions or aqueous emulsions) may be injurious to health after inhalation in animal tests.

Product details:

Route of exposure	*Result/Effect*	*Species/Test system*	*Result/Effect*
oral	LD50: 2.83 mL/kg	rat (male)	test report OECD 401
oral	LD50: 1.57 mL/kg	rat (female)	test report OECD 401
dermal	LD50: 4.29 mL/kg	rabbit (male)	**Test report**
by inhalation (vapour)	LC50: > 16 ppm; 6 h No mortality at room temperature in highly enriched or saturated atmosphere.	rat (female)	test report OECD 403
by inhalation (vapour)	LC50: > 5 ppm; 6 h No mortality at room temperature in highly enriched or saturated atmosphere.	rat (male)	test report OECD 403

Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitization	
Respiratory sensitization	Not available.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not classified.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity The product is not classified as environmentally hazardous. However, this

	does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

SECTION 14. TRANSPORTATION INFORMATION

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available.

SECTION 15. REGULATORY INFORMATION

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard CommunicationStandard, 29 CFR 1910.1200.
All components are listed on or exempt from the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes

Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance
Not listed.
SARA 311/312 Hazardouschemical
Yes
SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
Safe Drinking Water Act(SDWA)
Not regulated.

US state regulations

US. Massachusetts RTK - Substance List
Not regulated.
US. New Jersey Worker and Community Right-to-Know Act
Not listed.
US. Pennsylvania Worker and Community Right-to-Know Law
Not listed.
US. Rhode Island RTK
Not regulated.
US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to containany chemicals currently listed as carcinogens or reproductive toxins.
US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Ethanol (CAS 64-17-5)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australian	Inventory of Chemical Substances Australia (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing
country(s).

SECTION 16. OTHER INFORMATION

Issue date	15-Novemberl-2014
Revision date	11-April-2015
Version #	02
HMIS® ratings	Health: 3
Flammability:	1
Physical hazard:	1

Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment. The information in the sheet was written based on the best knowledge and experience currently available.