





6550 Oley Speaks Way Canal Winchester, OH 43110



www.rudolphbros.com rbcsupport@rudbro.com

### Safety Data Sheet



**Revision Number: 010.0** Issue date: 07/21/2020

# PRODUCT AND COMPANY IDENTIFICATION

**LOCTITE STYCAST ES 4212 PTB** Product name: known as HYSOL ES4212 PART B

GAL

**Epoxy Hardener** Product type/use: Restriction of Use: None identified

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

IDH number: 497988

Item number: EB4212-B50 **United States** Region:

Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

### 2. HAZARDS IDENTIFICATION

	EMERGENCY OVERVIEW	
DANGER:	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.	
	MAY CAUSE AN ALLERGIC SKIN REACTION.	

HAZARD CLASS	HAZARD CATEGORY
SKIN CORROSION	1C - Corrosive
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1



### **Precautionary Statements**

Prevention: Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace. Wear protective

gloves, clothing, eye and face protection.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off Response:

immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. Wash

contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	68953-36-6	30 - 60
Wollastonite (Ca(SiO3))	13983-17-0	30 - 60
Talc	14807-96-6	10 - 30

Tetraethylene pentamine	112-57-2	5 - 10
Limestone	1317-65-3	1 - 5
Quartz (SiO2)	14808-60-7	0.1 - 1

<sup>\*</sup> Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). Get medical attention. Wash clothing

before reuse.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Get immediate

medical attention.

Symptoms: See Section 11.

### 5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

Unusual fire or explosion hazards: Closed containers may rupture (due to build up of pressure) when exposed to

extreme heat.

**Hazardous combustion products:** Ammonia. Oxides of carbon, oxides of nitrogen, irritating organic vapors.

### 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:** Do not allow product to enter sewer or waterways.

Clean-up methods: Evacuate and ventilate spill area; dike spill to prevent entry into water system;

wear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure

Controls / Personal Protection" prior to clean up.

### 7. HANDLING AND STORAGE

Handling: Provide adequate ventilation. Prevent contact with eyes, skin and clothing. Do

not breathe vapor and mist. Wash thoroughly after handling. Refer to Section

8.

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame.

Keep container tightly closed until ready for use. Do not store in reactive metal

containers.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

Product name: LOCTITE STYCAST ES 4212 PTB known as HYSOL ES4212 PART B GAL Page 2 of 6

rbcsupport@rudbro.com

IDH number: 497988

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	None None		None	None
Wollastonite (Ca(SiO3))	1 mg/m3 TWA Inhalable fraction.	None	None	None
Talc	2 mg/m3 TWA Respirable fraction.  0.1 mg/m3 TWA Respirable. 20 MPPCF TWA 2.4 MPPCF TWA Respirable.		50 ppm	
Tetraethylene pentamine	None	None	1 ppm (5 mg/m3) TWA Aerosol. (SKIN) Aerosol. (Skin sensitizer)	None
Limestone	10 mg/m3 TWA Total dust.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
Quartz (SiO2)	0.025 mg/m3 TWA Respirable fraction.	0.05 mg/m3 TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m3 OSHA_ACT (Respirable dust.) 0.05 mg/m3 PEL Respirable dust. 2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable.	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should

be used if the potential for splashing or spraying of product exists. Safety

showers and eye wash stations should be available.

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid Color: Tan Odor: Ammoniacal Odor threshold: Not available. pH: Alkaline Vapor pressure: Not available. Boiling point/range: Not determined Melting point/ range: Not available. Specific gravity: 1 45 Vapor density: Not available.

Flash point: 101.6 °C (214.88 °F) Closed cup

Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not determined Flammability: Not applicable **Evaporation rate:** Not available. Solubility in water: Partially miscible Partition coefficient (n-octanol/water): Not available. **VOC** content: 0 %; 0 g/I Estimated Viscosity: Not available. Decomposition temperature: Not available.

IDH number: 497988 Product name: LOCTITE STYCAST ES 4212 PTB known as HYSOL ES4212 PART B GAL

Page 3 of 6

### 10. STABILITY AND REACTIVITY

**Stability**: Stable under normal conditions of storage and use.

Hazardous reactions: None under normal processing.

Hazardous decomposition

products:

Oxides of carbon. Oxides of nitrogen. Ammonia. Nitric acid. Nitrosamines.

Incompatible materials: Strong oxidizing agents. Strong acids and strong bases. Peroxides. CAUTION! N-nitrosamines

(many of which are known to be potent carcinogens) may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. This

product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Reactivity: Not available.

Conditions to avoid: High temperatures. Keep away from open flames, hot surfaces and sources of ignition. Store

away from incompatible materials.

# 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

#### Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation. Contains crystalline silica (quartz), which is classified as a

possible carcinogen. However, the crystalline silica present in this product is encapsulated in the liquid and will only be liberated if the product is sanded or abraded, and even then what is liberated will not be pure crystalline silica. Appropriate precautions, however, should be taken if

the product is sanded or abraded to prevent personnel from breathing the dust.

**Skin contact:** Causes skin burns. May cause allergic skin reaction.

**Eye contact:** Causes serious eye damage. Burns of the eye may cause blindness.

Ingestion: Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract if

swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	None	No Records
Wollastonite (Ca(SiO3))	None	Lung
Talc	None	Irritant, Lung, Some evidence of carcinogenicity
Tetraethylene pentamine	Oral LD50 (Rat) = 3.99 g/kg Oral LD50 (Rat) = 2.1 g/kg Dermal LD50 (Rabbit) = 0.66 g/kg	Irritant, Mutagen, Allergen
Limestone	None	Nuisance dust
Quartz (SiO2)	None	Immune system, Lung, Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	No	No	No
Wollastonite (Ca(SiO3))	No	No	No
Talc	No	No	No
Tetraethylene pentamine	No	No	No
Limestone	No	No	No
Quartz (SiO2)	Known To Be Human Carcinogen	Group 1	Yes

# 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available.

IDH number: 497988 Product name: LOCTITE STYCAST ES 4212 PTB known as HYSOL ES4212 PART B GAL

Page 4 of 6

### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: D002: Corrosive. Wastes must be tested using methods described in 40 CFR

Part 261 to determine if it meets applicable definitions of hazardous wastes.

# 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Tetraethylenepentamine solution

Hazard class or division: 8
Identification number: UN 2320
Packing group: III

International Air Transportation (ICAO/IATA)

**Proper shipping name:** Tetraethylenepentamine solution

Hazard class or division: 8

Identification number: UN 2320 Packing group:

Water Transportation (IMO/IMDG)

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. solution (Fatty acids, tall-oil, reaction

products with tetraethylenepentamine, Tetraethylene pentamine)

Hazard class or division: 8

Identification number: UN 2735
Packing group: III

Marine pollutant: Fatty acids, tall-oil, reaction products with tetraethylenepentamine

### 15. REGULATORY INFORMATION

**United States Regulatory Information** 

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances

Control Act (TSCA) inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS:
CERCLA/SARA Section 311/312:
CERCLA/SARA Section 313:

None above reporting de minimis.
None above reporting de minimis.

**California Proposition 65:** This product contains a chemical known in the State of California to cause cancer.

**Canada Regulatory Information** 

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 11,16

Prepared by: Product Safety and Regulatory Affairs

Issue date: 07/21/2020

Product name: LOCTITE STYCAST ES 4212 PTB known as HYSOL ES4212 PART B GAL Page 5 of 6

IDH number: 497988

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

This Safety Data Sheet has been generated based on OSHA Hazard Communication Standard (29 CFR 1910.1200) and provides information in accordance with U.S. federal law only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.

Product name: LOCTITE STYCAST ES 4212 PTB known as HYSOL ES4212 PART B GAL Page 6 of 6



IDH number: 497988





6550 Oley Speaks Way Canal Winchester, OH 43110



www.rudolphbros.com rbcsupport@rudbro.com