Safety Data Sheet



Revision Number: 006.0

Issue date: 07/27/2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

LOCTITE STYCAST US 5500 PTA

known as HYSOL US5500 PART A

GAL A1

Product type/use: Restriction of Use: Polyurethane resin None identified

Company address: Henkel Corporation

One Henkel Way

Rocky Hill, Connecticut 06067

IDH number:

304708

Item number:

UA5500-B50A1

Region:

United States

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.henkeina.com

2. HAZARDS IDENTIFICATION ag Wijner

EMERGENCY OVERVIEW

CAUSES SKIN IRRITATION. DANGER:

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING

DIFFICULTIES IF INHALED.

CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED

EXPOSURE

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	.1

PICTOGRAM(S)



Precautionary Statements

Prevention:

Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection. In case of

inadequate ventilation wear respiratory protection.

Response:

IF ON SKIN: Wash with plenty of water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do: Continue rinsing. If skin imitation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a poison center or physician. Take

off contaminated clothing.

Storage:

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Disposal:

Not prescribed

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.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Tris(2-ethylhexyl) benzene-1,2,4- tricarboxylate	3319-31-1	30 - 60
1,2-Benzenedicarboxylic acid, dinonyl ester, bran	68515-45-7	30 - 60
Methylenebis(phenylisocyanate)	101-68-8	1-5
Polymeric diphenylmethane diisocyanate	9016-87-9	1 - 5
Bis(2-hydroxy-3-tert-butyl-5- methylphenyl)methane	119-47-1	1-5
Methylene bisphenyl isocyanate	26447-40-5	1-5

^{*} 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. Asthmatic-type symptoms may

develop and may be immediate or delayed up to several hours. Extreme

asthmatic reactions can be life threatening.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. If symptoms develop and persist, 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. Never give anything by mouth to an unconscious

person. Get medical attention.

Symptoms: See Section 11.

Notes to physician: Eyes Stain for evidence of comeal injury. If comea is burned, instill antibiotic

steroid preparation frequently. Workplace vapors have produced reversible comeal epithelial edema impairing vision. Skin: This compound is a known skin sensitizer. Treat symptomatically as for contact dermatitis or thermal

burns.Ingestion:Treat symptomatically.There is no specific antidote.Inducing vomiting is contraindicated because of the irritating nature of this

compound. Respiratory: This compound is a known pulmonary sensitizer. An Individual having a dermal or pulmonary sensitization reaction to this material

should be removed from further exposure to any disocyanate;

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. During a fire, MDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. At temperatures above 204.4°C (400°F), polymeric MDI can polymerize and decompose which can cause pressure build-up in closed containers. Explosive rupture is

possible. In case of fire, keep containers cool with water spray.

Unusual fire or explosion hazards: Sealed containers at elevated temperatures or contaminated with water may

rupture explosively.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide. Methylene bisphenyl

isocyanate. Toxic and irritating 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.

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Clean-up methods:

Remove all sources of ignition. Ensure adequate ventilation, Isolate area. Keep unnecessary personnel away. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. For minor spills, absorb isocyanates with sawdust or other absorbent, shovel into suitable unsealed containers, transport to well ventilated area (outside) and treat with neutralizing solution: mixture of 80% water and 20% non-ionic surfactant Tergitol TMN-10; or 90% water, 3-8% concentrated ammonia and 2% detergent. Allow to stand uncovered for 48 hours to let carbon dioxide escape, Decontaminate floor with decontamination solution letting stand for at least 15 minutes.

7. HANDLING AND STORAGE

Handling:

Use only with adequate ventilation. Exposure to vapors of heated MDI can be extremely dangerous. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep away from heat, spark and flame. 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. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. MDI reacts slowly with water to form carbon dioxide gas. If container is exposed to high heat (204.4 °C (400 °F)), it can be pressurized and possibly rupture.

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

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
Tris(2-ethylhexyt) benzene-1,2,4- tricarboxylate	None	None	None	None.
1,2-Benzenedicarboxylic acid, dinonyl ester, bran	None	None	None	None
Methylenebis(phenylisocyanate)	0.005 ppm TWA	0.02 ppm (0.2 mg/m3) Ceiling	None	None
Polymeric diphenylmethane diisocyanate	None	None	None	None
Bis(2-hydroxy-3-tert-butyl-5- methylphenyl)methane	None	None	None	None
Methylene bisphenyl isocyanate	None	None	None	None

Engineering controls:

Local exhaust should be used to maintain levels below the TLV whenever MDI is processed, heated or spray applied. Standard reference sources regarding industrial ventilation (i.e., ACGIH Industrial Ventilation) should be consulted for guidance about adequate ventilation. Air monitoring: Monitoring of airborne isocyanates in the breathing zone of individuals should become part of the overall employee exposure characterization program. Monitoring techniques have been developed by NIOSH and OSHA. Medical Surveillance: Medical supervision of all employees who handle or come in contact with isocyanates is recommended. Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent shin eczema or sensitization should be excluded from working with isocyanates. Once a person is diagnosed as sensitized to an isocyanate, no further exposure can be permitted.

Respiratory protection:

Concentrations greater than the TLV can occur when MDI is sprayed, heated or used in a poorly ventilated area. In such cases, or whenever concentrations of MDI exceed the TLV, respiratory protection must be worn. A positive pressure, supplied-air respirator or a self-contained breathing apparatus is recommended. In situations where MDI is not sprayed, heated, or used in a poorly ventilated area, and a supplied-air or self-contained breathing apparatus is unavailable or its use impractical, at least an air-purifying cartridge and particulate pre-filters must be worn.

However, this should be permitted only for short periods of time (less than one hour) at relatively low concentrations (at or near the TLV). However, due to the poor warning properties of MDI, proper fit and timely replacement of filter elements must be ensured. Observe OSHA regulations for respirator use (29 CFR 1910.134).

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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:

Permeation resistant gloves (butyl rubber, nitrile rubber, polyvinyl alcohol). However, please note that polyvinyl alcohol degrades in water. Cover as much of the exposed skin area as possible with appropriate clothing. If skin creams are used, keep the area covered by the cream to a minimum.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Low viscosity, Liquid

Color: Odor:

Brown Aromatic

Odor threshold:

Not available.

pH:

Not available. 2.0 mm hg

Vapor pressure:

> 149 °C (> 300.2 °F)

Boiling point/range: Melting point/ range:

Not available.

Specific gravity: Vapor density: 1.0

Vapor density: Flash point: 3.8 233.9 °C (453.02 °F) Closed cup

Flammable/Explosive limits - lower: Flammable/Explosive limits - upper:

Not determined

Flammable/Explosive limits - upper Autoignition temperature: Not determined Not determined Not applicable 1 (Fiber = 1)

Flammability Evaporation rate: Solubility in water:

1 (Ether = 1) Negligible Not available.

Partition coefficient (n-octanol/water): VOC content:

0 % EPA Method 24
Not available.
Not available.

Viscosity: Decomposition temperature:

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of storage and use.

Hazardous reactions:

Contact with moisture, other materials which can react with isocyanates, or temperatures

above 204.4°C (400°F), may cause polymerization.

Hazardous decomposition

products:

Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide. Isocyanates,

Incompatible materials:

Water, Amines, Alkalis, Alcohols. Will cause some corrosion to copper alloys and aluminum.

Reactivity:

Not available.

Conditions to avoid:

Heat, flames, sparks and other sources of ignition. High temperatures. Contamination with

water. 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. May cause allergic respiratory reaction. Methylene bisphenyl isocyanate (MDI) vapors or mist at concentrations above the TLV can irritate the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Persons with preexisting, nonspecific bronchial hyper-reactivity can respond to concentrations below the TLV with similar symptoms as well as lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). These symptoms, which can include chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed (up to several hours after exposure). Similar to many non-specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air, or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Over exposure to isocyanates has also been reported to cause lung damage (including decrease in lung function) which may be permanent. This product contains modified rosin.

Skin contact:

Causes skin irritation. May cause allergic skin reaction. Isocyanates react with skin protein and moisture and can cause irritation which may include the following symptoms: reddening, swelling, rash, scaling or blistering. Animal tests have indicated that respiratory sensitization can result from skin contact with MDI. These data reinforce the need to prevent direct skin contact with MDI.

Eye contact:

Causes serious eye irritation. Liquid, aerosols or vapor are irritating and can cause tearing, reddening and swelling. May cause corneal injury. Damage however is usually reversible.

Ingestion:

May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Tris(2-ethylhexyl) benzene-1,2;4- tricarboxylate	Inhalation LC50 (Rat; 4 h) = > 2,600 mg/m3	liritant	
1,2-Benzenedicarboxylic acid, dinonyl ester, bran	None	No Target Organs	
Methylenebis(phenylisocyanate)	None	Irritant, Respiratory, Allergen	
Polymeric diphenylmethane diisocyanate	None	Allergen, Irritant, Kidney, Liver, Respiratory	
Bis(2-hydroxy-3-tert-butyl-5- methylphenyl)methane	Oral LD50 (Mouse) = 11,000 mg/kg Oral LD50 (Mouse) = 11,000 mg/kg	Irritarit	
Methylene bisphenyl isocyanate	None	Allergen, Irritant, Mutagen, Respiratory	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Tris(2-ethylhexyl) benzene-1,2,4- tricarboxylate	No	No	No.
1,2-Benzenedicarboxylic acid, dinonyl ester, bran	No	No	No.
Methylenebis(phenylisocyanate)	No	No	No
Polymeric diphenylmethane diisocyanate	No	No	No.
Bis(2-hydroxy-3-tert-butyl-5- methylphenyl)methane	No	No.	No
Methylene bisphenyl isocyanate	No	No.	No

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Follow all local, state, federal and provincial regulations for disposal.

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: Not regulated

Hazard class or division:
Identification number:
Packing group:
None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated Hazard class or division: None Identification number: None None None

Water Transportation (IMO/IMDG)

Proper shipping name:
Hazard class or division:
Identification number:
Packing group:
None

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. Immediate Health, Delayed Health

This product contains the following toxic chemicals subject to the reporting requirements of section 313, of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Methylenebis(phenylisocyanate) (CAS# 101-68-8). Polymeric diphenylmethane

diisocyanate (CAS# 9016-87-9).

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

product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

Canada Regulatory Information

IDH number: 304708

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: 3, 8, 11, 13, 16

Prepared by: Product Safety and Regulatory Affairs

Issue date: 07/27/2021

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