Safety Data Sheet



Revision Number: 006.0 Issue date: 06/04/2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE STYCAST US 2350 PTA known as HYSOL US2350 PART A 5

GAL

Product type/use: Polyurethane resin

Restriction of Use: Polyurethane resil

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

IDH number: 944939

Item number: UA2350-B80
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.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

HARMFUL IF INHALED.

MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING

DIFFICULTIES IF INHALED.

MAY CAUSE RESPIRATORY IRRITATION.

CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED

EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY INHALATION	4
SKIN IRRITATION	2
EYE IRRITATION	2A
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
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. Use only outdoors or in a well-ventilated area. 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: Remove victim to fresh air and keep at

rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. 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. If eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a

poison center or physician. Take off contaminated clothing.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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

governmental regulations.

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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*
Methylenebis(phenylisocyanate)	101-68-8	30 - 60
Diphenylmethane diisocyanate, isomers and homologs	9016-87-9	30 - 60
Methylene bisphenyl isocyanate	26447-40-5	10 - 30

^{*} Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections

FIRST AID MEASURES

Inhalation: If not breathing, give artificial respiration. If breathing is difficult, oxygen

should be administered by qualified personnel. Move to fresh air. If symptoms persist, seek medical advice. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Extreme asthmatic reactions

can be life threatening.

Skin contact: Remove contaminated clothing and shoes. Rinse with running water and

soap. Seek medical attention immediately. Wash contaminated clothing before

reuse. Thoroughly clean shoes before reuse.

Eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Seek medical attention immediately.

Ingestion: If material is ingested, immediately contact a physician or poison control

center. Keep individual calm. Never give anything by mouth to an unconscious

person. Seek medical attention immediately.

Symptoms: See Section 11.

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

steroid preparation frequently. Workplace vapors have produced reversible corneal 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.

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.

Unusual fire or explosion hazards: At higher temperatures isocyanate may be released. The product may

undergo spontaneous polymerization at high temperatures. Polymerization is exothermic and may cause damage to the container and/or release of thermal decomposition products. Sealed containers at elevated temperatures or contaminated with water may rupture explosively. In case of fire, keep containers cool with water spray. Do not allow run-off from fire fighting to

enter drains or water courses.

Hazardous combustion products:

Oxides of carbon. Oxides of nitrogen. Irritating and toxic gases or fumes may be released during a fire. Isocyanate vapors. Hydrogen cyanide. Isocyanates.

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; of

Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Remove all sources of ignition. Ensure adequate ventilation. Isolate area. Keep unnecessary personnel away. 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. Large quantities may be pumped into closed, but not sealed containers for disposal. If temporary control of isocyanate vapor is required, a blanket of protein foam (available at most fire departments) may be placed over spill.

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: For safe storage, store between -20 °C (-4°F) and 50 °C (122°F)

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. This gas can cause sealed containers to expand and possibly rupture. 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
Methylenebis(phenylisocyanate)	0.005 ppm TWA	0.02 ppm (0.2 mg/m3) Ceiling	None	None
Diphenylmethane diisocyanate, isomers and homologs	None	None	None	None
Methylene bisphenyl isocyanate	None	None	None	None

Engineering controls:

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Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination. 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. Isocyanate exposure levels must be monitored. 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 skin 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.

Product name: LOCTITE STYCAST US 2350 PTA known as HYSOL US2350 PART A 5 GAL Page 3 of 6 Respiratory protection: Concentrations greater than the TLV can occur when MDI is sprayed, heated

or used in a poorly ventilated area. Use NIOSH approved respirator if there is potential to exceed exposure limit(s). A positive pressure, supplied-air respirator or a self-contained breathing apparatus is recommended when: airborne concentrations of isocyanate are known to exceed 0.005 ppm; operations are performed in a confined space or area with limited ventilation; material is heated or sprayed. Do not inhale vapors and fumes. Observe

OSHA regulations for respirator use (29 CFR 1910.134).

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 eve 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:LiquidColor:Dark brownOdor:MustyOdor threshold:Not available.pH:Not applicable

Vapor pressure: < 0.0001 mm hg (25 °C (77°F))

208.8 °C (407.8 °F) Boiling point/range: Melting point/ range: 0 °C (32°F) Specific gravity: Vapor density: 1.24 at 25 °C (77°F) Not available. Flash point: 225.6 °C (438.08 °F) Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not determined Flammability: Not applicable

Solubility in water: Reacts slowly with water to liberate carbon dioxide gas.

Not available

Partition coefficient (n-octanol/water): Not available.

VOC content: 0 % (value for resin and hardener together) (estimated)

Viscosity: Not available. Decomposition temperature: Not available.

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:

IDH number: 944939

Evaporation rate:

Oxides of carbon. Oxides of nitrogen. Irritating and toxic gases or fumes may be released

during a fire. Isocyanate vapors Hydrogen cyanide. Isocyanates.

Incompatible materials: Water, amines, alkalis and alcohols. Will cause some corrosion to copper alloys and

aluminum. Moisture. Strong acids and strong bases.

Reactivity: Not available.

Conditions to avoid: Avoid moisture. Container can be pressurised by carbon dioxide due to reaction with humid air

and/or water. Extremes of temperature and direct sunlight. Keep away from heat, ignition sources and incompatible materials. High temperatures. Contamination with water.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Ingestion:

Inhalation: Harmful if inhaled. 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). May cause allergic respiratory reaction. 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.

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.

Eye contact: Causes serious eye irritation. Liquid or vapor can cause moderate to severe irritation.

Symptoms can include irritation, redness, scratching of the cornea, and tearing. Conjunctivitis. Not expected under normal conditions of use. May cause gastrointestinal tract irritation if

swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Methylenebis(phenylisocyanate)	None	Irritant, Respiratory, Allergen
Diphenylmethane diisocyanate, isomers and homologs	None	Allergen, Irritant, Kidney, Liver, Respiratory
Methylene bisphenyl isocyanate	None	Allergen, Irritant, Mutagen, Respiratory

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Methylenebis(phenylisocyanate)	No	No	No
Diphenylmethane diisocyanate, isomers and homologs	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: RQ, Environmentally hazardous substance, liquid, n.o.s.

Hazard class or division: 9
Identification number: UN 3082
Packing group: III

DOT Hazardous Substance(s): Methylene diphenyl diisocyanate

International Air Transportation (ICAO/IATA)

IDH number: 944939

Proper shipping name: RQ, Environmentally hazardous substance, liquid, n.o.s.

Hazard class or division: 9
Identification number: UN 3082
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Hazard class or division: 9

Identification number: UN 3082 Packing group: III

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: None above reporting de minimis.

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA Section 313: 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). Diphenylmethane

diisocyanate, isomers and homologs (CAS# 9016-87-9).

CERCLA Reportable quantity: Methylenebis(phenylisocyanate) (CAS# 101-68-8) 5,000 lbs. (2,270 kg)

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

IDH number: 944939

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: 4,5,6,7,8,10,13,15,16

Prepared by: Product Safety and Regulatory Affairs

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