

Revision Number: 001.2

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1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Product name: Product type:

MACROPLAST UR-8343 Polyurethane adhesive

Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067 Region: **United States** Contact information: Telephone: 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

1252539

2. HAZARDS IDENTIFICATION

	FMERGEN		
EMERGENCY OVERVIEW HMIS:			
Physical state:	Liquid	HEALTH:	*2
Color:	yellowish, to, Light amber	FLAMMABILITY:	1
Odor:	characteristic	PHYSICAL HAZARD:	1
		Personal Protection:	See MSDS Section 8
WARNING:	CAUSES EYE IRRI	TATION.	
	MAY CAUSE SKIN	AND RESPIRATORY TRACT IR	RITATION.
	MAY CAUSE ALLE	RGIC SKIN AND RESPIRATOR	Y REACTION
	MAY CAUSE LUNG		
Relevant routes of exposu	Relevant routes of exposure: Skin, Inhalation, Eyes		
Potential Health Effects			
Inhalation:	This product may ca	ause sensitization by inhalation and skin	contact. May cause irritation to
	nose and throat.	,	,
Skin contact:	May cause skin irrit sensitization reactio	ation. Prolonged contact with this produc	t may cause allergic skin
Eye contact:		cause moderate to severe irritation.	
Ingestion:	· · · ·	d. Not expected under normal conditions	of use.
-			
Existing conditions aggra exposure:		lung allergies may increase the chance of osure to this product. Existing conditions	
	This product is cons	sidered hazardous under 29 CFR 1910.1	200 (Hazard Communication).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Methylenebis(phenylisocyanate)	101-68-8	10 - 30
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	10 - 30

4	. FIRST AID MEASURES
Inhalation:	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If not breathing, give artificial respiration. Seek medical advice.
Skin contact:	Wash affected area immediately with soap and water. Immediately remove soiled or soaked clothing. Seek medical advice.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 1 minutes. Seek medical advice.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Ge immediate medical attention.
5. F	FIRE FIGHTING MEASURES
Flash point:	> 110 °C (> 230°F)
Flashback:	None
Autoignition temperature:	Not determined
Flammable/Explosive limits - lower:	Not applicable
Flammable/Explosive limits - upper:	Not applicable
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such a turn-out gear.
Unusual fire or explosion hazards:	Closed containers may rupture (due to build up of pressure) when exposed extreme heat. Fumes and vapors from thermal decompositions vary in composition and toxicity.
Hazardous combustion products:	Thermal decomposition can lead to release of irritating gases and vapors. Hydrogen cyanide. Oxides of carbon. Oxides of nitrogen.

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. Follow all local, state, federal and provincial regulations for disposal.	
Clean-up methods:	Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Small spills can be absorbed with vermiculite, clay or other suitable non-biodegradable absorbent material, scooped up and placed in containers. For large spills dike ahead and collect liquid.	
7. HANDLING AND STORAGE		
Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling.	

Storage:

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

Do not store above 100 °F (37.7 °C).

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 components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Methylenebis(phenylisocyanate)	0.005 ppm TWA	0.02 ppm (0.2 mg/m3) Ceiling	None	None
Isocyanic acid, polymethylenepolyphenylene ester	0.005 ppm TWA	0.02 ppm (0.2 mg/m3) Ceiling	None	None
Engineering controls:	sufficient to ma relevant standa ventilation is no areas with app	e done in an adequate aintain concentrations ards). Local exhaust ve ot sufficient to control a ropriate exhaust ventil when general ventilati	below one half of the entilation is recommer airborne contaminatio ation. Local exhaust	PEL and other nded when general n. Heat only in ventilation is
Respiratory protection:Do not inhale vapors and fumes. Do not breathe dust, spray, or mist positive pressure, supplied-air respirator or a self-contained breathir apparatus is recommended when: airborne concentrations of isocya known to exceed 0.005 ppm; operations are performed in a confined area with limited ventilation; material is heated or sprayed. Use a po pressure air supplied respirator if there is any potential for an uncon release, exposure levels are not known; or any other circumstances purifying respirators may not provide adequate protection. Observe regulations for respirator use (29 CFR 1910.134).		d breathing of isocyanate are a confined space or Use a positive an uncontrolled mstances where air		
Eye/face protection:	Safety glasses there is a risk of	with sideshields or ch of splashing.	emical safety goggles	should be worn if
Skin protection:	Wear long slee	eved shirt and long trou	users.	
9. PHYSIC	AL AND CHEM	ICAL PROPER	TIES	
Physical state: Color: Odor: Odor threshold: pH: Vapor pressure:	Liquid yellowish, to, L characteristic Not available. Not applicable Not available.	ight amber		
Boiling point/range: Melting point/ range: Specific gravity: Vapor density: Flash point: Flash point: Flashback:	Not available. Not available. 1.10 Not available. > 110 °C (> 23 None	0°F)		
Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content:	Not applicable Not applicable Not determined Not available.	d eacts slowly with wate	er to liberate carbon di	oxide gas.

10. STABILITY AND REACTIVITY

Stable

Hazardous reactions:

Will not occur.

Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors. Hydrogen cyanide. Oxides of carbon. Oxides of nitrogen.
Incompatible materials:	Reacts slowly with water to liberate carbon dioxide gas.
Conditions to avoid:	Container can be pressurised by carbon dioxide due to reaction with humid air and/or water.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Methylenebis(phenylisocyanate)	No	No	No
Isocyanic acid, polymethylenepolyphenylene ester	No	No	No

Hazardous components	Health Effects/Target Organs
Methylenebis(phenylisocyanate)	Irritant, Respiratory, Allergen
Isocyanic acid, polymethylenepolyphenylene ester	Allergen, Irritant, Kidney, Liver, Respiratory

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: This product is not a RCRA hazardous waste when discarded. Processing, use, or contamination of this product may change the hazard classification and waste management options. Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number:

Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classification in this section are for bulk packaging only. Shipping classification may be different for non-bulk packaging as exceptions may apply. Refer to shipping documents for package specific transportation classification.

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

Environmentally hazardous substances, liquid, n.o.s.
9
UN 3082
III
Methylene diphenyl diisocyanate

International Air Transportation (ICAO/IATA)

Proper shipping name: Hazard class or division: Identification number: Packing group: Environmentally hazardous substance, liquid, n.o.s.

9 UN 3082 III

<u>Water Transportation (IMO/IMDG)</u> Proper shipping name: Hazard class or division: Identification number: Packing group:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 9 UN 3082 III
	15. REGULATORY INFORMATION
United States Regulatory Information	
TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12(b) Export Notification:	None above reporting de minimus
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA 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). Isocyanic acid, polymethylenepolyphenylene ester (CAS# 9016-87-9).
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.
Canada Regulatory Information	
CEPA DSL/NDSL Status: WHMIS hazard class:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List. D.2.B, D.2.A

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Updated Contact Information in Section 1.

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