



Material Safety Data Sheet UV640

Issue date: 12/06/13

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:PERMABOND UV640Product Type:Light Curing AdhesiveCompany:PERMABOND14 Robinson StreetPottstown, PA 19464USA

MSDS REQUESTS: HELP LINE: 732-868-1372 or 800-640-7599 Website: www.permabond.com

Medical: Poison Control Center 866-827-6282 Transport: CHEMTREC 800-424-9300

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	%	ACGIH TLV	OSHA PEL	OTHER
2-Hydroxyethyl methacrylate 868-77-9	1 – 20	None	None	3 ppm (ceiling)
Modified acrylamide 2680-03-7	10 – 20	None	None	0.1mg/m ³ TWA (skin) 0.025 ppm TWA (skin)
Tetrahydrofurfuryl Methacrylate 2455-24-5	10 – 30	None	None	None
Acrylate Esters 5888-33-5	10 – 40	None	None	None
Diphenyl (2,4,6- trimethylbenzoyl) phospine oxide 75980-60-8	1 – 5	None	None	None
Treated Fumed Silica 67762-90-7	1 – 5	10mg/m ³ Inhalable fraction, 3 mg/m ³ respirable fraction, TWA	5mg/m ³ Respirable dust, 15 mg/m ³ total dust	None

3. HAZARDS IDENTIFICATION

		EMERGENCY OVERVIEW HMIS:	
Physical state:	Liquid	HEALTH:	2*
Color:	Clear	FLAMMABILITY:	1
Odor:	Mild	PHYSICAL HAZARD:	1
		Personal Protection:	See Section 8

WARNING: COMBUSTIBLE LIQUID. CAUSES EYE AND SKIN IRRITATION MAY CAUSE ALLERGIC SKIN REACTION MAY BE HARMFUL IF SWALLOWED OR INHALED OR ABSORVED THROUGH THE SKIN



Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects	
Inhalation:	Modified acrylamide is harmful if inhaled. May cause irritation to nose and throat. Do NOT heat or spray as this increases the inhalation hazard.
Skin contact:	Modified acrylamide may be absorbed through the skin in harmful amounts. Irritating to skin. May cause allergic skin reaction.
Eye contact:	Vapors may irritate eyes. Contact with eyes will cause irritation.
Ingestion:	Modified acrylamide is harmful if swallowed. May cause gastrointestinal tract irritation if swallowed.
Existing conditions aggravated by exposure:	Skin disorders. Eye disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

- Skin contact:Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing
before reuse. Get medical attention if symptoms occur.
- Eye contact:Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes,
holding eyelids open all the time. Get medical attention.
- **Ingestion:** Do not induce vomiting. Keep individual calm. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point:	71°C (160°F) Tagliabue closed cup	
Autoignition temperature: Not available		
Flammable/Explosive limits-lower %:	Not available	
Flammable/Explosive limits-upper %:	Not available	
Extinguishing media: Foam, dry chemical or carbon dioxide.		
Special fire fighting procedures: Wear self-contained breathing apparatus and full protective clothing		
Uncontrolled polymerization may occur at high temperatures		
Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Irritating organic vapors.		
6. ACCIDENTAL RELEASE MEASURES		

Environmental precautions:	Prevent product from entering drains or open waters. Remove sources of ignition.
Clean-up methods:	Remove all ignition sources. Ensure adequate ventilation. Soak up with inert absorbent. Store in a partly filled, closed container until disposal.



7. HANDLING AND STORAGE

Handling:	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep away from heat, spark and flame. Use only with adequate ventilation.
Storage:	Store away from heat, sparks, flames, or other sources of ignition. For safe storage, store between 5°C and 25°C (41°F and 77°F).
Incompatible products:	Refer to Section 10.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Skin protection:	Use impermeable gloves and protective clothing as necessary to prevent skin contact. Neoprene gloves.
Eye/face protection:	Safety goggles or safety glasses with side shields.
	See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Clear
Odor:	Mild
Vapor pressure:	Less than 10 mm Hg at 24°C (75°F)
pH:	Not applicable
Boiling point/range:	Greater than 93°C (200°F)
Melting point/range:	Not available
Specific gravity:	1.1
Vapor density:	Not available
Evaporation rate:	Not available
Solubility in water:	Slight
Partition coefficient (n-octanol/water):	Not available
VOC content:	<4 %, 42 grams/liter

10. STABILITY AND REACTIVITY

Stability	Stable.
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Irritating organic vapors.
Incompatibility:	Strong oxidizers.
Conditions to avoid:	Heat, flames, sparks and other sources of ignition.



11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
2-Hydroxyethyl methacrylate 868-77-9	No	No	No
Modified acrylamide 2680-03-7	No	No	No
Tetrahydrofurfuryl Methacrylate 2455-24-5	No	No	No
Acrylate Esters 5888-33-5	No	No	No
Diphenyl (2,4,6-trimethylbenzoyl) phospine oxide 75980-60-8	No	No	No
Treated fumed silica	No	No	No

Hazardous components	Health Effects/Target Organs
2-Hydroxyethyl methacrylate 868-77-9	Allergen, irritant
Modified acrylamide 2680-03-7	Less weight gain and food intake., Mutagen, Kidney, Irritant, Eyes
Tetrahydrofurfuryl Methacrylate 2455-24-5	Allergen, Irritant
Acrylate Ester 5888-33-5	Allergen, Irritant
Diphenyl (2,4,6-trimethylbenzoyl) phospine oxide 75980-60-8	No data
Treated fumed silica	Irritant

12. ECOLOGICAL INFORMATION

Ecological information:

Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:	Dispose of according to Federal, State and local governmental
	regulations.
	Not a RCRA hazardous waste.
EPA hazardous waste number:	

rdous waste number:

14. TRANSPORT INFORMATION

The shipment information in this section is for non-bulk packaging. Shipping classification might be different for buk packaging.

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

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



International Air Transportation (ICAO/IATA):

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

WaterTransportation (IMO/IMDG):

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

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:	4-Methoxyphenol (150-76-5).
CERCLA/SARA Section 302 EHS:	None above reporting de minimus.
CERCLA/SARA Section 311/312:	Immediate Health Hazard, Delayed Health Hazard
CERCLA/SARA 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). None.
California Proposition 65:	This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

16. OTHER INFORMATION

This MSDS was reviewed and released with new date 12/06/13

This material safety data sheets contains changes from the previous one in section1: Transport Emergency Number was changed.

ADDITIONAL INFORMATION: The information given and the recommendations made herein apply to our product(s) alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.