



SAFETY DATA SHEET

Section 1 - Chemical Product and Company Information

Product Name: LOCTITE AA H3151 A RESIN
known as SPEEDBONDER H3151 400 ML PART A

Product Type: Acrylics

Emergency 24-hour Phone (English): CHEMTREC Number +(800) 424-9300

Company Information: UltraTech International, Inc.
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Section 2 - Hazards Identification

EMERGENCY OVERVIEW:

DANGER: HIGHLY FLAMMABLE LIQUID AND VAPOR.
CAUSES SKIN IRRITATION.
MAY CAUSE AN ALLERGIC SKIN REACTION
CAUSES SERIOUS EYE DAMAGE.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	2
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

Precautionary Statements

Prevention: Keep away from heat, sparks, open flames, hot surfaces - no smoking. Keep container tightly closed. No release into water. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. 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.

Response: If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Immediately call a poison control center or physician. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.



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

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

Section 3 - Composition/Information on Ingredients

Chemical Name	CAS number	%
Methyl methacrylate	80-62-6	30 - 60
2-Hydroxyethyl methacrylate	868-77-9	10 - 30
Methacrylic acid	79-41-4	1 - 5
Methacrylate ester	Proprietary	1 - 5
Tert-butyl perbenzoate	614-45-9	0.1 - 1
Glass, oxide, chemicals	65997-17-3	0.1 - 1
Talc	14807-96-6	0.1 - 1
Carbon tetrachloride	56-23-5	0.1 - 1

Section 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. Thoroughly clean shoes before reuse.

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 unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Symptoms: See Section 11.

Section 5 - Fire Fighting Measures

Extinguishing media: 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: Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.

Hazardous combustion products: Oxides of carbon. Oxides of phosphorus. Oxides of sulfur. Hydrogen chloride. Acids. Alcohols. Aldehydes. Toxic fumes. Irritating vapors.



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Section 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: Remove all sources of ignition. Ensure adequate ventilation. Wear appropriate personal protective equipment. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container for disposal.

Section 7 - Handling & Storage

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. During use and until all vapors are gone: Keep area ventilated - do not smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources of ignition. Keep container closed.

Storage: For safe storage, store at or below 32 °C (89.6 °F)
Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame. Protect from direct sunlight. Maintain head space in storage containers to support oxygen requirements of the inhibitor(s).

Section 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
Methyl methacrylate	50 ppm TWA 100 ppm STEL (Sensitizer.)	100 ppm (410 mg/m ³) PEL	None	50 ppm
2-Hydroxyethyl methacrylate	None	None	None	3 ppm Ceiling
Methacrylic acid	20 ppm TWA	None	None	None
Methacrylate ester	None	None	None	None
Tert-butyl perbenzoate	None	None	None	None
Glass, oxide, chemicals	10 mg/m ³ TWA Inhalable dust. 3 mg/m ³ TWA Re- spirable fraction. 5 mg/m ³ TWA In- halable fraction. 1 FIBERS/CM ³ TWA Fiber. 0.2 FIBERS/CM ³ TWA Fiber.	15 mg/m ³ TWA Total dust. 5 mg/m ³ TWA Respirable frac- tion.	None	None



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Talc	2 mg/m ³ TWA Re-spirable fraction.	20 MPPCF TWA 2.4 MPPCF TWA Respirable. 0.1 mg/m ³ TWA Respirable. 0.3 mg/m ³ TWA Total dust.	None	50 ppm
Carbon tetrachloride	5 ppm TWA 10 ppm STEL (SKIN)	10 ppm TWA 25 ppm Ceiling 200 ppm MAX. CONC 5 minutes in any 4 hours	None	None

- Engineering controls:** Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established 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.
- Skin protection:** Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

Section 9 - Physical & Chemical Properties

- Physical state:** Liquid, Paste
- Color:** White, Opaque
- Odor:** Sharp
- Odor threshold:** Not available.
- pH:** Not available.
- Vapor pressure:** 28 mm hg (20 °C (68°F))
- Boiling point/range:** > 100 °C (> 212°F) (1,013 hPa)
- Melting point/ range:** Not available.
- Specific gravity:** 1.01
- Vapor density:** > 1
- Flash point:** 14 °C (57.2 °F) Setaflash Closed Cup
- Flammable/Explosive limits - lower:** Not available.
- Flammable/Explosive limits - upper:** Not available.
- Autoignition temperature:** Not available.
- Evaporation rate:** Faster than ether., (Ether = 1)
- Solubility in water:** Slight
- Partition coefficient (n-octanol/water):** Not available.
- VOC content:** 0.28 %; 2.65 g/l Estimated
- Viscosity:** Not available.
- Decomposition temperature:** Not available.

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Section 10 - Stability & Reactivity

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	Polymerization may occur at elevated temperatures or upon depletion of inhibitor.
Hazardous decomposition products:	Oxides of carbon. Oxides of phosphorus. Oxides of sulfur. Hydrogen chloride. Acids. Aldehydes. Alcohols. Toxic fumes. Irritating vapors.
Incompatible materials:	Oxidizing agents. Reducing agents. Acids. Bases. Peroxides. Free radical initiators. Metals.
Reactivity:	Not available.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight. Loss of polymerization inhibitor. Loss of dissolved air. Inert gas blanketing. Do not mix in batches greater than 100 grams (0.22 pounds) unless you plan to use immediately.

Section 11 - Toxicological Information

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation:	May cause respiratory tract irritation. Drowsiness. Dizziness
Skin contact:	Causes skin irritation. May cause allergic skin reaction.
Eye contact:	Causes serious eye damage.
Ingestion:	May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s & LC50s	Immediate & Delayed Health Effects
Methyl methacrylate	Oral LD50 (RAT) = 7,800 mg/kg Oral LD50 (RABBIT) = 6,000 mg/kg Oral LD50 (RAT) = 9,400 mg/kg Inhalation LC50 (RAT, 8 h) = 3750 ppm	Allergen, Irritant, Kidney, Liver, Mutagen, Nervous System, Respiratory
2-Hydroxyethyl methacrylate	Oral LD50 (RAT) = 11.2 g/kg Oral LD50 (RAT) = 5,050 mg/kg	Irritant, Allergen
Methacrylic acid	Oral LD50 (RABBIT) = 1,200 mg/kg Oral LD50 (RAT) = 1,060 mg/kg Oral LD50 (RAT) = 2,224 mg/kg Dermal LD50 (RABBIT) = 500 mg/kg Inhalation LC50 (RAT, 4 h) = 7.1 mg/l	Corrosive, Irritant, Allergen
Methacrylate ester	None	Irritant, Allergen
Tert-butyl perbenzoate	None	Central nervous system, Irritant, Mutagen
Glass, oxide, chemicals	None	Allergen, Respiratory
Talc	None	Irritant, Lung, Some evidence of carcinogenicity
Carbon tetrachloride	Oral LD50 (RAT) = 2,800 mg/kg Oral LD50 (RABBIT) = 6,380 mg/kg Oral LD50 (RAT) = 2,920 mg/kg	Cardiac, Central nervous system, Irritant, Kidney, Liver, Some evidence of carcinogenicity



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Hazardous Component(s)	LD50s & LC50s	Immediate & Delayed Health Effects	OSHA Carcinogen (Specifically Regulated)
Methyl methacrylate	No	No	No
2-Hydroxyethyl methacrylate	No	No	No
Methacrylic acid	No	No	No
Methacrylate ester	No	No	No
Tert-butyl perbenzoate	No	No	No
Glass, oxide, chemicals	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No
Talc	No	Group 2B	No
Carbon tetrachloride	No	No	No

Section 12 - Ecological Information

Ecological Information: Not available.

Section 13 - Disposal Considerations

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations

Hazardous waste number: D001: Ignitable. D019: Carbon tetrachloride. It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

Section 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: Adhesives (Up to 55 gallons max per inner/primary package when shipped as originally packaged only)
Hazard class or division: 3
Identification number: UN 1133
Packing group: II
DOT Hazardous Substance(s): Methyl methacrylate, Carbon tetrachloride

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International Air Transportation (ICAO/IATA)

Proper shipping name: Adhesives (Up to 55 gallons max per inner/primary package when shipped as originally packaged only)
Hazard class or division: 3
Identification number: UN 1133
Packing group: II
DOT Hazardous Substance(s): Methyl methacrylate, Carbon tetrachloride

Water Transportation (IMO/IMDG)

Proper shipping name: ADHESIVES (Up to 55 gallons max per inner/primary package when shipped as originally packaged only)
Hazard class or division: 3
Identification number: UN 1133
Packing group: II
DOT Hazardous Substance(s): Methyl methacrylate, Carbon tetrachloride

Section 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 minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis

CERCLA/SARA Section 311/312: Fire, 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). Methyl methacrylate (CAS# 80-62-6). Carbon tetrachloride (CAS# 56-23-5).

CERCLA Reportable quantity: Methyl methacrylate (CAS# 80-62-6) 1,000 lbs. (454 kg)
Carbon tetrachloride (CAS# 56-23-5) 10 lbs. (4.54 kg)
Tert-butyl perbenzoate (CAS# 614-45-9) 100 lbs. (45.4 kg)

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.

Section 16 - Other Information

Issue date: Novemeber 20, 2014

Further information

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

UVCB: A substance of Unknown or Variable composition, Complex reaction products or Biological materials.

The information this safety data sheet is believed to be accurate and is the best information available to UltraTech International, Inc. This document is intended only as a guide to the appropriate precautions to handling a chemical by a person trained in chemical handling. UltraTech International makes no warranty of merchantability and any other warranty, express or implied with respect to such information or the product to which it relates, and we assume no liability resulting from the use, misuse or handling of the product to which the safety data sheet relates. Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.