



Revision Date: 02/06/2006

Issue date: 06/05/2006

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE H4500 SPEEDBNDR PART A
Product type: Acrylics
Company address:
 Henkel Corporation
 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Item No. : 998739_AA0450 / IDH No. 998739
Region: United States
Contact Information:
 Telephone: (860) 571-5100
 Emergency telephone: (860) 571-5100
 Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Methyl methacrylate 80-62-6	30-60	100 ppm STEL 50 ppm TWA	100 ppm TWA 410 mg/m³ TWA	50 ppm
Polyethylene based rubber Proprietary	10-30	None	None	None
Methacrylic acid 79-41-4	1-5	20 ppm TWA	None	None
Hydroxyalkyl methacrylate 868-77-9	10-30	None	None	3 ppm (ceiling)
Methacrylate ester 52628-03-2	1-5	None	None	None
2,6-Di-t-butyl-p-cresol 128-37-0	1-5	2 mg/m³ TWA inhalable fraction and vapor	None	None
Talc 14807-96-6	0.1-1	2 mg/m³ TWA respirable fraction, particulate matter containing no asbestos and < 1% crystalline silica	= 20 mppcf TWA	50 ppm
Carbon tetrachloride 56-23-5	0.1-1	10 ppm STEL 5 ppm TWA (skin)	10 ppm TWA 25 ppm Ceiling	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Paste
Color: Opaque White
Odor: Sharp

HEALTH: 2*
FLAMMABILITY: 3
PHYSICAL HAZARD: 1
Personal Protection: See Section 8

WARNING: FLAMMABLE LIQUID AND VAPOR.
 CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION
 HARMFUL IF SWALLOWED.
 MAY CAUSE ALLERGIC SKIN REACTION.

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Inhalation: Vapors may cause headaches, nausea, dizziness and respiratory tract irritation.
Skin contact: Irritating to skin. May cause allergic skin reaction.

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Eye contact:
Ingestion:

Vapors may irritate eyes. Contact with eyes will cause irritation.
May be harmful if swallowed. Ingestion causes irritation and effects similar to inhalation.

Existing conditions aggravated by exposure:

Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention.

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: 14°C (58°F) Setafash 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: None

Unusual fire or explosion hazards: Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide. Acrid smoke and fumes. Irritating organic vapors.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent product from entering drains or open waters.

Clean-up methods: Remove all ignition sources. Ensure adequate ventilation. Soak up with inert absorbent. Store in a closed container until ready for disposal.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing 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. Make sure containers are properly grounded before use or transfer of material.

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. For safe storage, store at or below 32°C (90°F).

Incompatible products: Refer to Section 10.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

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: Chemical resistant, impermeable gloves. Nitrile 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: Paste
Color: Opaque White
Odor: Sharp
Vapor pressure: 28 mmHg @20°C (68° F)
pH: Not applicable
Boiling point/range: Greater than 38°C (100°F)
Melting point/range: Not available
Specific gravity: 1.06
Vapor density: Greater than 1
Evaporation rate: Faster than ether
Solubility in water: Slight
Partition coefficient (n-octanol/water): Not available
VOC content: Not available

10. STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: May occur.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Styrene, acrylonitrile, acetaldehyde, acetophenone, ethylbenzene, cumene, 4-vinylcyclohexene, phenols, sulfur dioxide. Irritating organic vapors. Toxic fumes. Smoke.

Incompatibility: Oxidizing agents. Reducing agents. Acids. Bases.

Conditions to avoid: See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10). Do not mix in batches greater than 100 grams (0.220 pounds) unless you plan to use immediately.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Methyl methacrylate 80-62-6	No	No	No
Polyethylene based rubber Proprietary	No	No	No
Methacrylic acid 79-41-4	No	No	No
Hydroxyalkyl methacrylate 868-77-9	No	No	No
Methacrylate ester 52628-03-2	No	No	No
2,6-Di-t-butyl-p-cresol 128-37-0	No	No	No
Talc 14807-96-6	No	No	No
Carbon tetrachloride 56-23-5	Suspect Carcinogen	Group 2B	Yes

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Methyl methacrylate 80-62-6	Allergen, Irritant, Kidney, Liver, Nervous System, Respiratory, Mutagen
Polyethylene based rubber Proprietary	No Target Organs
Methacrylic acid 79-41-4	Allergen, Corrosive, Irritant
Hydroxyalkyl methacrylate 868-77-9	Allergen, Irritant
Methacrylate ester 52628-03-2	Allergen, Irritant
2,6-Di-t-butyl-p-cresol 128-37-0	Mutagen, Irritant
Talc 14807-96-6	Some evidence of carcinogenicity, Lung, Irritant
Carbon tetrachloride 56-23-5	Cardiac, Central nervous system, Irritant, Kidney, Liver, Some evidence of carcinogenicity

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.

EPA hazardous waste number: D001: Ignitable.

14. TRANSPORT INFORMATION

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

Proper shipping name: Adhesives
Hazard class or division: 3
Identification number: UN 1133
Packing group: II
Exceptions: Consumer Commodity ORM-D (Not more than 5 L)
Marine pollutant: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Adhesives
Hazard class or division: 3
Identification number: UN 1133
Packing group: II
Exceptions: May Qualify as Consumer Commodity ID8000 (Not more than 500 ml)

WaterTransportation (IMO/IMDG):

Proper shipping name: Adhesives
Hazard class or division: 3
Identification number: UN1133
Packing group: II
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, Fire
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). Methyl Methacrylate (CAS# 80-62-6) .
California Proposition 65:	This product contains a chemical known to the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class:	B.2, D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 14

Prepared by: Regulatory Affairs

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Revision Date: 04/18/2007

Issue date: 04/18/2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE H4500 SPEEDBNDR PART B
Product type: Acrylics
Company address:
 Henkel Corporation
 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Item No. : 998740_AB0480 / IDH No. 998740
Region: United States
Contact Information:
 Telephone: 860.571.5100
 Emergency telephone: 860.571.5100
 Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Methyl methacrylate 80-62-6	60-100	50 ppm TWA 100 ppm STEL	100 ppm TWA 410 mg/m ³ TWA	50 ppm
Aldehyde-amine condensate Proprietary	10-30	None	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Paste Color: Yellow Opaque Odor: Sharp	HMIS: HEALTH: 2* FLAMMABILITY: 3 PHYSICAL HAZARD: 1 Personal Protection: See Section 8
WARNING: FLAMMABLE LIQUID AND VAPOR. CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION HARMFUL IF SWALLOWED. MAY CAUSE ALLERGIC SKIN REACTION.	

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Inhalation: Vapors may cause headaches, nausea, dizziness and respiratory tract irritation.
Skin contact: Irritating to skin. May cause allergic skin reaction.
Eye contact: Vapors may irritate eyes. Contact with eyes will cause irritation.
Ingestion: May be harmful if swallowed. Ingestion causes irritation and effects similar to inhalation.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If symptoms develop and persist, get medical attention.
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:	14°C (58°F) Setaflash 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:	None
Unusual fire or explosion hazards:	Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back.
Hazardous combustion products:	Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide. Aldehydes. Ketones. Toxic fumes. Acrid smoke and fumes. Irritating organic vapors.

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing 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. Make sure containers are properly grounded before use or transfer of material.
Storage:	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. For safe storage, store at or below 32°C (90°F).
Incompatible products:	Refer to Section 10.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

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:	Chemical resistant, impermeable gloves. Nitrile 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:	Paste
Color:	Yellow Opaque
Odor:	Sharp
Vapor pressure:	28 mmHg @20°C (68° F)
pH:	Not applicable
Boiling point/range:	Greater than 38°C (100°F)
Melting point/range:	Not available
Specific gravity:	0.96
Vapor density:	Greater than 1
Evaporation rate:	Faster than ether
Solubility in water:	Slight
Partition coefficient (n-octanol/water):	Not available
VOC content:	2.60%; 26.0 grams/liter (Adhesive and Activator mixed)

10. STABILITY AND REACTIVITY

Stability:	Stable.
Hazardous polymerization:	May occur.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide. Aldehydes. Styrene. Acrolein. Acetophenone. Ethylbenzene. Cumene. 4-Vinyl cyclohexene. Phenols. Ketones. Irritating organic vapors. Toxic fumes. Smoke.
Incompatibility:	Oxidizing agents. Reducing agents. Acids. Bases.
Conditions to avoid:	See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10). Do not mix in batches greater than 100 grams (0.220 pounds) unless you plan to use immediately.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Methyl methacrylate 80-62-6	No	No	No
Aldehyde-amine condensate Proprietary	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Methyl methacrylate 80-62-6	Allergen, Irritant, Kidney, Liver, Nervous System, Respiratory, Mutagen
Aldehyde-amine condensate Proprietary	No data

12. ECOLOGICAL INFORMATION

Ecological information:	Not available
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13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:	Dispose of according to Federal, State and local governmental regulations.
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EPA hazardous waste number:	D001: Ignitable.
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14. TRANSPORT INFORMATION

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

Proper shipping name: Adhesives
Hazard class or division: 3
Identification number: UN 1133
Packing group: II
Exceptions: Consumer Commodity ORM-D (Not more than 5 L)
Marine pollutant: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Adhesives
Hazard class or division: 3
Identification number: UN 1133
Packing group: II
Exceptions: May Qualify as Consumer Commodity ID8000 (Not more than 500 ml)

Water Transportation (IMO/IMDG):

Proper shipping name: Adhesives
Hazard class or division: 3
Identification number: UN1133
Packing group: II
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: None.

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard, Fire
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). Methyl Methacrylate (CAS# 80-62-6) .

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

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class: B.2, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 15

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.