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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE® A-533™ ADHESIVE
Product type: Acrylic Adhesive
Company address:
 Henkel Corporation
 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Item No. : 1254144 / IDH No. 1254144
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>
Aromatic urethane acrylate Unknown	30-60	None	None	None
Isobornyl acrylate 5888-33-5	10-30	None	None	None
Hydroxyalkyl methacrylate 868-77-9	10-30	None	None	3 ppm (ceiling)
Methacrylic acid 79-41-4	5-10	20 ppm TWA	None	None
Treated fumed silica 67762-90-7	1-5	10mg/m³ Inhalable fraction, 3mg/m³ Respirable fraction, TWA	5mg/m³ Respirable dust, 15mg/m³ Total dust	None
Methanol 67-56-1	0.1-1	200 ppm TWA 250 ppm STEL (skin)	200 ppm TWA 260 mg/m³ TWA	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Liquid
Color: Blue/grey
Odor: Acrylic

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

WARNING: CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION
 HARMFUL IF ABSORBED THROUGH SKIN OR INHALED.
 MAY CAUSE ALLERGIC SKIN REACTION.
 MAY BE HARMFUL IF SWALLOWED.

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

Potential Health Effects

Inhalation: Harmful if inhaled. Causes respiratory tract irritation. Vapors and mists will irritate the respiratory tract and nasal passages.
Skin contact: Harmful if absorbed through skin. Causes skin irritation. May cause allergic skin reaction. Repeated or prolonged skin contact may result in allergic sensitization.
Eye contact: Severe eye irritation.
Ingestion: May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Skin contact:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms develop and persist.
Eye contact:	Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get immediate medical attention.
Ingestion:	Do not induce vomiting. Keep individual calm. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash point:	99°C (210°F) Setaflash Closed cup
Autoignition temperature:	Not available
Flammable/Explosive limits-lower %:	Not available
Flammable/Explosive limits-upper %:	Not available
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special fire fighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Use water spray to keep fire exposed containers cool.
Unusual fire or explosion hazards:	Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.
Hazardous combustion products:	Oxides of carbon. Irritating organic vapors. Toxic fumes. Smoke.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Prevent product from entering drains or open waters. Do not allow material to contaminate ground water system.
Clean-up methods:	Ensure adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Spontaneous hazardous polymerization may occur. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Do not taste or swallow. Keep container closed. Use only with adequate ventilation. Keep away from heat, spark and flame.
Storage:	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Avoid exposure to light.
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:	Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.
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.

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.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Blue/grey
Odor:	Acrylic
Vapor pressure:	0.01 mmHg
pH:	Not applicable
Boiling point/range:	Not available
Melting point/range:	Not available
Specific gravity:	1.1
Vapor density:	5.0
Evaporation rate:	Less than butyl acetate.
Solubility in water:	Insoluble.
Partition coefficient (n-octanol/water):	Not available
VOC content:	5.0%; 55.1 grams/liter

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous polymerization:	Polymerization may occur at elevated temperature or in the presence of incompatible materials.
Hazardous decomposition products:	Oxides of carbon. Irritating organic vapors.
Incompatibility:	Oxidizing agents. Reducing agents. Acids. Bases. Amines. Alkalis. Metals. Inert gases. Organic peroxides. Oxygen scavengers. Free radical initiators. Other polymerization initiators.
Conditions to avoid:	Heat, flames and sparks. Direct sunlight. Storage with incompatible materials.

11. TOXICOLOGICAL INFORMATION**Carcinogen Status**

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Aromatic urethane acrylate Unknown	No	No	No
Isobornyl acrylate 5888-33-5	No	No	No
Hydroxyalkyl methacrylate 868-77-9	No	No	No
Methacrylic acid 79-41-4	No	No	No
Treated fumed silica 67762-90-7	No	No	No
Methanol 67-56-1	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Aromatic urethane acrylate Unknown	No data
Isobornyl acrylate 5888-33-5	Allergen, Irritant
Hydroxyalkyl methacrylate 868-77-9	Allergen, Irritant
Methacrylic acid 79-41-4	Allergen, Corrosive, Irritant
Treated fumed silica 67762-90-7	Irritant
Methanol 67-56-1	Eyes, Heart, Irritant, Kidney, Liver, Metabolic, Nervous System, Reproductive

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of in accordance with federal, state and local regulations.

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

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

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: 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 above reporting de minimus.
CERCLA/SARA Section 302 EHS:	None above reporting de minimus.
CERCLA/SARA Section 311/312:	Immediate Health Hazard, Delayed Health Hazard
CERCLA/SARA 313:	None above reporting de minimus.
California Proposition 65:	This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDL Status:	Contains one or more components listed on the Non-Domestic Substances list. All other components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class:	D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: Jennifer Glieco, Regulatory Affairs Specialist

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