Safety Data Sheet



Revision Number: 006.0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

Product type/use: Tough Restriction of Use: None Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

LOCTITE 384 ADH known as 384 Output(TM) Adhesive Tough acrylic None identified

IDH number:

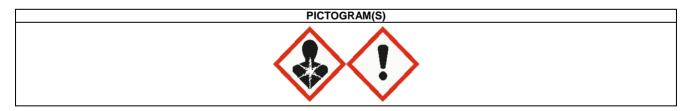
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Item number:8200241Region:United StatesContact information:Telephone: +1 (860) 571-5100MEDICAL EMERGENCY Phone: Poison Control Center1-877-671-4608 (toll free) or 1-303-592-1711TRANSPORT EMERGENCY Phone: CHEMTREC1-800-424-9300 (toll free) or 1-703-527-3887Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW			
DANGER:	CAUSES SKIN IRRITATION.		
	MAY CAUSE AN ALLERGIC SKIN REACTION.		
	CAUSES SERIOUS EYE IRRITATION.		
	SUSPECTED OF CAUSING CANCER.		
	MAY DAMAGE FERTILITY OR THE UNBORN CHILD.		
	MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR		
	REPEATED EXPOSURE.		

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
CARCINOGENICITY	2
REPRODUCTIVE TOXICITY	1B
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2



Precautionary Statements

Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection.
Response:	IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.
Storage:	Store locked up.
Disposal:	Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Aluminium hydroxide	21645-51-2	60 - 80	
Tetrahydrofurfuryl methacrylate	2455-24-5	10 - 30	
Ethylene/MethylAcrylate rubber		5 - 10	
Hydroxyalkyl methacrylate	27813-02-1	5 - 10	
Cumene hydroperoxide	80-15-9	1 - 5	
Saccharin	81-07-2	0.1 - 1	
Silica, amorphous, fumed, crystal-free	112945-52-5	0.1 - 1	
1,3-Butylene glycol dimethacrylate	1189-08-8	0.1 - 1	
Cumene	98-82-8	0.1 - 1	
Ethylene glycol	107-21-1	0.1 - 1	
2-phenylpropan-2-ol	617-94-7	0.1 - 1	
methacrylic acid	79-41-4	0.1 - 1	

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

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:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Get medical attention.		
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. 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.		
5. F	5. FIRE FIGHTING MEASURES		
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.		
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.		
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. Oxides of nitrogen. Irritating organic vapours.

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. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean- up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.	

7. HANDLING AND STORAGE

Handling:	Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not taste or swallow. Refer to Section 8.
Storage:	For safe storage, store at or below 38 °C (100.4 °F) Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

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
Aluminium hydroxide	1 mg/m3 TWA Respirable fraction. 10 mg/m3 TWA (as Al) Total dust.	15 mg/m3 TWA (as Al) Total dust. 5 mg/m3 TWA (as Al) Respirable fraction. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction. 50 MPPCF TWA Total dust.	None	None
Tetrahydrofurfuryl methacrylate	None	None	None	None
Ethylene/MethylAcrylate rubber	None	None	None	None
Hydroxyalkyl methacrylate	None	None	None	1 ppm TWA 3 ppm STEL
Cumene hydroperoxide	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None
Saccharin	None	None	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	20 MPPCF TWA 0.8 mg/m3 TWA	None	None
1,3-Butylene glycol dimethacrylate	None	None	None	None
Cumene	50 ppm TWA	50 ppm (245 mg/m3) PEL (SKIN)	None	None
Ethylene glycol	25 ppm TWA Vapor fraction 50 ppm STEL Vapor fraction 10 mg/m3 STEL Aerosol, inhalable.	None	None	None
2-phenylpropan-2-ol	None	None	None	None
methacrylic acid	20 ppm TWA	None	None	None

Engineering controls:Provide adequate local exhaust ventilation to maintain worker exposure below
exposure limits.Respiratory protection:Use a NIOSH approved air-purifying respirator if the potential to exceed
established exposure limits exists. If this material is handled at elevated
temperatures or under mist forming conditions, without engineering controls, a
NIOSH approved respirator must be used.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. Safety
showers and eye wash stations should be available.Skin protection:Use chemical resistant, impermeable clothing including gloves and either an
apron or body suit to prevent skin contact. Neoprene gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Odor: Odor threshold: Paste, Liquid White Mild Not available.

Product name: LOCTITE 384 ADH known as 384 Output(TM) Adhesive Page 4 of 8

Boiling point/range: Melting point/ range: Specific gravity:
0, 0
Specific gravity:
Vapor density:
Flash point:
Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:
Flammability:
Evaporation rate:
Solubility in water:
Partition coefficient (n-octanol/water):
VOC content:
Viscosity:
Decomposition temperature:

Not applicable $< 5 \text{ mm hg} (27 ^{\circ}\text{C} (80.6 ^{\circ}\text{F}))$ Not available. 1.0 Not available. $> 93.3 ^{\circ}\text{C} (> 199.94 ^{\circ}\text{F})$ Not available. Not available. Not available. Not available. Not available. Slight Not available. 26.6 %; 266 g/I EPA Method 24 Not available. Not available. Not available. Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.	
Hazardous reactions:	None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials.	
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Irritating organic vapours.	
Incompatible materials:	Strong oxidizing agents. Free radical initiators. Reducing agents. Strong acids. Oxygen scavengers. Other polymerization initiators. Heavy metals. Amines. Peroxides. Alkalis.	
Reactivity:	Not available.	
Conditions to avoid:	Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials. Do not freeze. Protect from direct sunlight. UV light. Inert gas blanketing. Avoid moisture.	
11. TOXICOLOGICAL INFORMATION		

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation:	May cause respiratory tract irritation. May cause central nervous system depression.
Skin contact:	Causes skin irritation. May cause allergic skin reaction.
Eye contact:	Causes serious eye irritation.
Ingestion:	May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Aluminium hydroxide	Oral LD50 (Rat) = > 5,000 mg/kg	Irritant, Lung, Respiratory	
Tetrahydrofurfuryl methacrylate	None	Irritant, Allergen	
Ethylene/MethylAcrylate rubber	None	No Data	
Hydroxyalkyl methacrylate	None	Irritant, Allergen	
Cumene hydroperoxide	None	Allergen, Central nervous system, Corrosive, Irritant, Mutagen	
Saccharin	Oral LD50 (Mouse) = 17 g/kg	No Target Organs	
Silica, amorphous, fumed, crystal-free	None	Nuisance dust	
1,3-Butylene glycol dimethacrylate	None	Irritant, Allergen	
Cumene	Oral LD50 (Rat) = 2.91 g/kg Oral LD50 (Rat) = 1,400 mg/kg	Central nervous system, Irritant, Lung	
Ethylene glycol	Oral LD50 (Rat) = 5.89 g/kg Oral LD50 (Mouse) = 14.6 g/kg Dermal LD50 (Rabbit) = 9,530 mg/kg	Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Irritant, Kidney, Liver, Metabolic	
2-phenylpropan-2-ol	Oral LD50 (Mouse) = 1.950 g/kg	Blood, Central nervous system, Irritant, Kidney, Liver	
methacrylic acid	Oral LD50 (Mouse) = 1,332 mg/kg Oral LD50 (Mouse) = 1,600 mg/kg Oral LD50 (Mouse) = 1,250 mg/kg 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	Corrosive, Irritant, Allergen	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Aluminium hydroxide	No	No	No
Tetrahydrofurfuryl methacrylate	No	No	No
Ethylene/MethylAcrylate rubber	No	No	No
Hydroxyalkyl methacrylate	No	No	No
Cumene hydroperoxide	No	No	No
Saccharin	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No
1,3-Butylene glycol dimethacrylate	No	No	No
Cumene	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No
Ethylene glycol	No	No	No
2-phenylpropan-2-ol	No	No	No
methacrylic acid	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Follow all local, state, federal and provincial regulations for disposal.

Recommended method of disposal:

Hazardous waste number:

D003: Reactive.

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 (4	I9 CFR)		
Proper shipping name:	RQ, Environmentally hazardous substance, liquid, n.o.s.		
Hazard class or division:	9		
Identification number:	UN 3082		
Packing group:			
DOT Hazardous Substance(s):	alpha,alpha-Dimethylbenzylhydroperoxide		
International Air Transportation (ICAO/IATA) Proper shipping name: Hazard class or division: Identification number: Packing group:	RQ, Environmentally hazardous substance, liquid, n.o.s. 9 UN 3082 III		
Water Transportation (IMO/IMDG) Proper shipping name: Hazard class or division: Identification number: Packing group:	RQ, 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 minimis
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 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). Cumene hydroperoxide (CAS# 80-15-9). Cumene (CAS# 98-82-8).
CERCLA Reportable quantity:	Cumene hydroperoxide (CAS# 80-15-9) 10 lbs. (4.54 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.
nada Regulatory Information	
CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: Not available.

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Prepared by: Product Safety and Regulatory Affairs

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