

Revision Number: 002.7 Issue date: 02/20/2019

## 1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Product name: **LOCTITE ABLESTIK 16-1LV PTB** known as Ablebond 16-1LV-H

Product type/use: Adhesive for the Aerospace Industry

Restriction of Use:

Company address: Henkel Corporation

One Henkel Way Rocky Hill, Connecticut 06067

None identified

Region: United States

**Contact information:** 

Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

1695223

Internet: www.henkelna.com

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

DANGER: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

MAY CAUSE AN ALLERGIC SKIN REACTION.

MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING

DIFFICULTIES IF INHALED.

MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR

REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2

#### PICTOGRAM(S)



#### **Precautionary Statements**

Prevention: 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. In case of inadequate ventilation wear respiratory

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off

immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If

experiencing respiratory symptoms: Call a poison center or physician. Wash contaminated clothing before reuse.

Store locked up.

Storage:

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

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*
C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer	68082-29-1	70 - 80
Diethylenetriamine	111-40-0	10 - 20
Ethylene glycol	107-21-1	1 - 5
Triethylenetetramine	112-24-3	1 - 5

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

# 4. FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If symptoms

develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately wash skin

thoroughly with soap and water. If symptoms develop and persist, get medical

attention.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15

minutes, and seek immediate medical attention.

Ingestion: Get immediate medical attention. DO NOT induce vomiting unless directed to

do so by medical personnel.

Symptoms: See Section 11.

Notes to physician: Treat symptomatically and supportively.

## 5. FIRE FIGHTING MEASURES

Extinguishing media: Use media appropriate for surrounding material.

Special firefighting procedures: Wear full protective clothing. Wear self-contained breathing apparatus.

Unusual fire or explosion hazards: May liberate large quantities of dense, foul-smelling smoke which may contain

unidentified toxic gasses.

Hazardous combustion products: Upon decomposition, this product emits carbon monoxide, carbon dioxide

and/or low molecular weight hydrocarbons. Oxides of nitrogen.

## 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:** Prevent further leakage or spillage if safe to do so. Wear appropriate

protective equipment and clothing during clean-up. Do not allow product to

enter sewer or waterways.

Clean-up methods: Absorb spill with inert material. Shovel material into appropriate container for

disposal. Dispose of according to Federal, State and local governmental

regulations.

## 7. HANDLING AND STORAGE

Handling: For the Part A plus Part B adhesive mixture, follow curing schedule as

recommended in product literature. Do not heat Part B at temperatures greater than 100 °C (212 °F). This material may self-react at higher temperatures and cause an exotherm. The exotherm has the potential for release of excessive energy and toxic gasses. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full. Do not cut,

grind, weld, or drill on or near this container.

Storage: For safe storage, store between 0 °C (32°F) and 5 °C (41°F)

Keep container tightly closed and in a cool, well-ventilated place away from

incompatible materials.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 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
C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer	None	None	None	None
Diethylenetriamine	(SKIN) 1 ppm TWA	None	None	None
Ethylene glycol	25 ppm TWA Vapor fraction 50 ppm STEL Vapor fraction 10 mg/m3 STEL Aerosol, inhalable.	None	None	None
Triethylenetetramine	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None

Engineering controls: Provide local and general exhaust ventilation to effectively remove and

prevent buildup of any vapors or mists generated from the handling of this

product.

Respiratory protection: If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or

vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

**Eye/face protection:** Wear chemical goggles; face shield (if splashing is possible).

Skin protection: Wear impervious gloves for prolonged contact. Use of impervious apron and

boots are recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:AmberOdor:AmmoniaOdor threshold:Not available.pH:Not determined

Vapor pressure: < 1.0 mm hg (20 °C (68°F))

Boiling point/range: Not determined Melting point/ range: Not determined

Specific gravity: 0.96

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Vapor density: Not determined

Flash point: > 93 °C (> 199.4 °F) Flammable/Explosive limits - lower: Not determined Flammable/Explosive limits - upper: Not determined Not determined Autoignition temperature: Flammability: Not applicable Evaporation rate: Not determined Solubility in water: Partially soluble Partition coefficient (n-octanol/water): Not determined

**VOC** content: < 10 g/l per SCAQMD Rule 1124 [EPA Test Method 24/304-91] (estimated)

Viscosity: 3,200 cp **Decomposition temperature:** Not available.

## 10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: May occur.

Hazardous decomposition

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products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low

molecular weight hydrocarbons. Oxides of nitrogen.

Incompatible materials: Keep away from strong oxidizing agents, strong Lewis or mineral acids.

Reactivity: Not available.

Conditions to avoid: Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately.

Failure to observe these precautions may result in excessive heat build-up causing an

exotherm. Do not heat mixed adhesive unless curing surfaces to be bonded.

#### **TOXICOLOGICAL INFORMATION** 11.

Relevant routes of exposure: Skin, Inhalation, Eyes

#### Potential Health Effects/Symptoms

Inhalation: Mists, vapors or liquid may cause severe irritation or burns. May cause allergic respiratory

reaction.

**Skin contact:** This product is severely irritating to the skin and may cause burns. This product may cause an

allergic skin reaction.

**Eye contact:** This product is severely irritating to the eyes and may cause irreversible damage including

burns and blindness.

**Ingestion:** Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the

digestive tract. Swallowing large volumes of ethylene glycol can lead to kidney damage.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer	None	No Records	
Diethylenetriamine	Oral LD50 (Rat) Approximate 1,140 mg/kg Oral LD50 (Rat) = 1,080 mg/kg Oral LD50 (Rat) = 2.33 g/kg	Allergen, Irritant, Eyes	
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	
Triethylenetetramine	None	Allergen, Corrosive, Developmental, Irritant, Mutagen	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer	No	No	No
Diethylenetriamine	No	No	No
Ethylene glycol	No	No	No
Triethylenetetramine	No	No	No

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Do not empty into drains / surface water / ground water.

## 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: This product, if discarded, may be characterized as a RCRA corrosive waste,

D002. Wastes must be tested using methods described in 40 CFR Part 261 to

determine if it meets applicable definitions of hazardous wastes.

## 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:** Amines, liquid, corrosive, n.o.s. (Diethylenetriamine, Triethylenetetramine)

Hazard class or division: 8
Identification number: UN 2735

Packing group:

International Air Transportation (ICAO/IATA)

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Diethylenetriamine, Triethylenetetramine)

Hazard class or division: 8
Identification number: UN 2735
Packing group: II

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Water Transportation (IMO/IMDG)

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Diethylenetriamine, Triethylenetetramine,

C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer)

Hazard class or division:

Identification number: UN 2735

Packing group:

Marine pollutant: C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer

## 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 a
CERCLA/SARA Section 311/312: Immed
CERCLA/SARA Section 313: This pr

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). Ethylene glycol (CAS# 107-21-1).

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.

**Canada Regulatory Information** 

IDH number: 1695223

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: New Safety Data Sheet format.

Prepared by: Regulatory Affairs

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