

Revision Number: 004.0 Issue date: 02/04/2015

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name: LOCTITE CAT 11 known as Catalyst** IDH number: 1416577

11(75g), 2 oz Amber b

Product type: **Epoxy Hardener** Item number: 441427 Restriction of Use: None identified Region: **United States** Contact information:

Company address:

Henkel Electronic Materials LLC 14000 Jamboree Road Irvine, CA 92606

Telephone: +1 (888) 943-6535

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

Internet: www.henkel.com/electronics

## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

DANGER: HARMFUL IF SWALLOWED OR IN CONTACT WITH SKIN.

CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

TOXIC IF INHALED.

MAY CAUSE DROWSINESS OR DIZZINESS.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	4
ACUTE TOXICITY INHALATION	3
ACUTE TOXICITY DERMAL	4
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

## PICTOGRAM(S)



### **Precautionary Statements**

Prevention: Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Do not eat, drink or

> smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear eye and face protection. Wear

protective gloves and clothing.

If SWALLOWED: Immediately call poison control or physician if you feel unwell. IF ON SKIN: Response:

Wash with plenty of soap and water. 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. Call a poison control center or physician. Rinse mouth. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get

medical attention. Take off contaminated clothing.

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

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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*
1,3-Phenylenediamine	108-45-2	60 - 100
N-Methyl-2-pyrrolidone	872-50-4	10 - 30

<sup>\*</sup> Exact percentage is a 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. If symptoms develop and persist, get

medical attention. Wash clothing before reuse.

**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.

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### 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: Closed containers may rupture (due to build up of pressure) when exposed to

extreme heat.

**Hazardous combustion products:** Oxides of carbon, oxides of nitrogen, irritating organic vapors.

## 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. Isolate area.

Keep unnecessary personnel away. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a closed container until ready for 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.

Refer to Section 8.

Storage: For safe storage, store between 0.0 °C (32°F) and 40.0 °C (104°F)

Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Protect from direct sunlight.

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
1,3-Phenylenediamine	0.1 mg/m3 TWA	None	None	None
N-Methyl-2-pyrrolidone	None	None	10 ppm (40 mg/m3) TWA (SKIN)	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.

**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 impermeable gloves and protective clothing as necessary to prevent skin

contact.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:Light brownOdor:AmineOdor threshold:Not available.pH:9.20 (1% solution)

Vapor pressure: < 0.345 mm hg (25 °C (77°F))

Boiling point/range: > 200.0 °C (> 392°F)
Melting point/ range: Not available.

Specific gravity: 1.11

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Vapor density: 3.4 (Air = 1)

Flash point: 95.60 °C (204.08 °F)

Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:
Evaporation rate:

Not available.
Not available.
Not available.

Solubility in water:

Partition coefficient (n-octanol/water):

VOC content:

Viscosity:

Decomposition temperature:

Soluble

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.

**Hazardous decomposition** 

products:

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Oxides of carbon. Oxides of nitrogen. Irritating organic fragments.

Incompatible materials: Oxidizing agents. Strong acids. Alkalis.

Reactivity: Not available.

Conditions to avoid: High temperatures. Heat, flames, sparks and other sources of ignition. Store away from

incompatible materials.

### 11. TOXICOLOGICAL INFORMATION

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

### Potential Health Effects/Symptoms

Inhalation: Toxic by inhalation. May cause respiratory tract irritation. May cause central nervous system

effects with nausea, dizziness and headache. Drowsiness.

Skin contact: Harmful in contact with skin. Causes skin irritation. May cause allergic skin reaction.

**Eye contact:** Causes serious eye irritation.

Ingestion: Harmful if swallowed. Ingestion of this product may cause nausea, vomiting and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
1,3-Phenylenediamine	Oral LD50 (RAT) = 650 mg/kg	Allergen, Bladder, Blood, Central nervous system, Developmental, Irritant, Kidney, Liver, Mutagen, Skin
N-Methyl-2-pyrrolidone	Oral LD50 (RAT) = 4,320 mg/kg Oral LD50 (RAT) = 3,914 mg/kg Dermal LD50 (RABBIT) = 8,000 mg/kg	Blood, Bone Marrow, Central nervous system, Immune system, Irritant, Lung

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
1,3-Phenylenediamine	No	No	No
N-Methyl-2-pyrrolidone	No	No	No

# 12. ECOLOGICAL INFORMATION

Ecological information: Not available.

### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

### 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: Toxic, liquids, organic, n.o.s. (Phenylene diamine)

Hazard class or division: 6.1
Identification number: UN 2810
Packing group: III

International Air Transportation (ICAO/IATA)

**Proper shipping name:** Toxic liquid, organic, n.o.s. (Phenylene diamine)

Hazard class or division: 6.1
Identification number: UN 2810
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (Phenylene diamine)

Hazard class or division: 6.1
Identification number: UN 2810
Packing group: III

Marine pollutant: Phenylene diamine

# 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: 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). 1,3-Phenylenediamine (CAS# 108-45-2). N-Methyl-2-pyrrolidone (CAS# 872-50-

4).

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** 

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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: Tricia Voghell, Regulatory Affairs Specialist

**Issue date:** 02/04/2015

Product name: LOCTITE CAT 11 known as Catalyst 11(75g), 2 oz Amber b Page 5 of 6 **DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel 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 Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

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