

Revision Number: 003.0 Issue date: 09/17/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

**LOCTITE ECCOBOND F 112-H known** IDH number: **Product name:** 1382527

as TRA-BOND F112 BIPAX 2,5 GR - H

Product type: **Epoxy Hardener** 

Restriction of Use: None identified Company address:

Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

**United States** Region:

Contact information: Telephone: (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

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.

HAZARD CLASS	HAZARD CATEGORY
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1

## PICTOGRAM(S)





#### **Precautionary Statements**

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Response:

Prevention: Do not breathe vapors, mist, or spray. Wash thoroughly after handling. Contaminated work

clothing should not be allowed out of the workplace. Wear protective gloves, eye protection,

and face protection. In case of inadequate ventilation wear respiratory protection.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. 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. Immediately call a poison control center or physician. If skin irritation or rash occurs: Get medical attention. If experiencing respiratory symptoms: Call a poison center or physician. Wash contaminated clothing before reuse.

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).

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Epoxy polyamine adduct	Unknown	30 - 60	
Polyglycol diamine	Proprietary	10 - 30	
Diethylenetriamine	111-40-0	10 - 30	
Silica, amorphous, naturally	60676-86-0	5 - 10	
Epoxy resin	Proprietary	1 - 5	
Phenol-formaldehyde polymer	9003-35-4	0.1 - 1	
Titanium dioxide	13463-67-7	0.1 - 1	

<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. 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. Ammonia. Toxic and irritating 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: 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.

## 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: Keep in a cool, well ventilated area away from heat, sparks and open flame.

Keep container tightly closed until ready for use.

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
Epoxy polyamine adduct	None	None	None	None
Polyglycol diamine	None	None	None	None
Diethylenetriamine	1 ppm TWA (SKIN)	None	None	None
Silica, amorphous, naturally	None	20 MPPCF TWA 0.8 mg/m3 TWA	None	None
Epoxy resin	None	None	None	None
Phenol-formaldehyde polymer	None	None	None	None
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 PEL Total dust.	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

**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:BlueOdor:AmmoniaOdor threshold:Not available.pH:Not applicableVapor pressure:Not available.Boiling point/range:> 146 °C (> 294.8 °F)

Melting point/ range:
Specific gravity:
Vapor density:

Not determined
1
> 1.0

**Decomposition temperature:** 

Flash point: > 93 °C (> 199.4 °F) Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not determined Evaporation rate: Not applicable Solubility in water: Slightly soluble Partition coefficient (n-octanol/water): Not determined **VOC** content: < 0.1 % Viscosity: Not available.

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Not available.

# 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: None under normal processing.

Hazardous decomposition

products:

Oxides of carbon. Oxides of nitrogen. Ammonia. Chlorine. Nitric acid. Nitrosamines. Irritating

Acids and bases. Strong oxidizing agents. Peroxides. Sodium hypochlorite. This product Incompatible materials:

slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Reactivity: Not available.

Conditions to avoid: Elevated temperatures. Store away from incompatible materials. Keep away from heat, spark

and flame.

# 11. TOXICOLOGICAL INFORMATION

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

#### Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation. May cause allergic respiratory reaction. These symptoms,

which can include chest tightness, wheezing, cough, shortness of breath or asthma attack,

could be immediate or delayed (up to several hours after exposure).

Skin contact: May cause allergic skin reaction. Causes skin burns.

Eve contact: Causes serious eye damage.

Ingestion: Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract if

swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Epoxy polyamine adduct	None	No Data	
Polyglycol diamine	None	Corrosive	
Diethylenetriamine	Oral LD50 (RAT) = 1,080 mg/kg Oral LD50 (RAT) = 2.33 g/kg Oral LD50 (RAT) Approximate 1,140 mg/kg	Allergen, Irritant, Eyes	
Silica, amorphous, naturally	None	Nuisance dust	
Epoxy resin	None	Irritant, Allergen	
Phenol-formaldehyde polymer	None	Allergen, Corrosive, Irritant, Kidney, Respiratory, Skin	
Titanium dioxide	dioxide None Ir		

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epoxy polyamine adduct	No	No	No
Polyglycol diamine	No	No	No
Diethylenetriamine	No	No	No
Silica, amorphous, naturally	No	No	No
Epoxy resin	No	No	No
Phenol-formaldehyde polymer	No	No	No
Titanium dioxide	No	Group 2B	No

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

Hazardous waste number: D002: Corrosive.

#### 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. (3,3'-oxybis(ethyleneoxy)bis(propylamine),

Diethylenetriamine)

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. (3,3'-oxybis(ethyleneoxy)bis(propylamine),

Diethylenetriamine)

Hazard class or division: 8

Identification number: UN 2735 Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (3,3'-

oxybis(ethyleneoxy)bis(propylamine), Diethylenetriamine)

Hazard class or division: 8

Identification number: UN 2735
Packing group: II

#### 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
None above reporting de minimis

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** 

CEPA DSL/NDSL Status: One or more components are not listed on, and are not exempt from listing on either the

Domestic Substances List or the Non-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

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