Safety Data Sheet



Revision Number: 005.0 Issue date: 03/31/2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE ABLESTIK 285 BK known as ECCOBOND 285 BLK 18# INDIVIDUAL

Product type/use: Conductive adhesive **Restriction of Use:** None identified

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

IDH number: 1188112

Item number: 1188112 **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

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

| | EMERGENCY OVERVIEW | |
|----------|--|--|
| WARNING: | CAUSES SKIN IRRITATION. | |
| | MAY CAUSE AN ALLERGIC SKIN REACTION. | |
| | CAUSES SERIOUS EYE IRRITATION. | |
| | SUSPECTED OF CAUSING GENETIC DEFECTS. | |
| | SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. | |

| HAZARD CLASS | HAZARD CATEGORY |
|------------------------|-----------------|
| SKIN IRRITATION | 2 |
| EYE IRRITATION | 2A |
| SKIN SENSITIZATION | 1 |
| GERM CELL MUTAGENICITY | 2 |
| REPRODUCTIVE TOXICITY | 2 |

PICTOGRAM(S)



Precautionary Statements

IDH number: 1188112

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Avoid breathing 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* |
|------------------------|------------|-------------|
| | | |

Product name: LOCTITE ABLESTIK 285 BK known as ECCOBOND 285 BLK 18# INDIVIDUAL

| Aluminium oxide - non fibrous form | 1344-28-1 | 60 - 80 |
|--|-------------|---------|
| Epoxy resin | Proprietary | 10 - 30 |
| Silica, amorphous, fumed, crystal-free | 112945-52-5 | 1 - 5 |
| butyl glycidyl ether | 2426-08-6 | 1 - 5 |
| Carbon black | 1333-86-4 | 0.1 - 1 |

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

FIRST AID MEASURES

Move to fresh air. If not breathing, give artificial respiration. If breathing is Inhalation:

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.

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.

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. Halogenated compounds. Toxic and irritating vapors.

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.

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: 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.

IDH number: 1188112

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 oxide - non fibrous form | 1 mg/m3 TWA Respirable fraction. | 5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. 50 MPPCF TWA Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction. | None | None |
| Epoxy resin | 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 |
| butyl glycidyl ether | 3 ppm TWA (SKIN) (Dermal sensitization) | 50 ppm (270 mg/m3) PEL | None | None |
| Carbon black | 3 mg/m3 TWA Inhalable fraction. | 3.5 mg/m3 PEL | 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.

Safety goggles or safety glasses with side shields. Full face protection should Eye/face protection:

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.

PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid Color: Black Odor. **Pungent** Not available. Odor threshold: Not available. pH:

< 0.1 mm hg (25 °C (77°F)) . Vapor pressure:

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

Specific gravity: 2.4 Vapor density: > 1.0

IDH number: 1188112

> 93.3 °C (> 199.94 °F) Flash point:

Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. Flammability: Not applicable **Evaporation** rate: Not determined Solubility in water: Insoluble Partition coefficient (n-octanol/water): Not determined **VOC** content: < 18.8 g/l Viscosity: Not available. **Decomposition temperature:** Not available.

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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. Halogenated compounds. Irritating vapors.

Incompatible materials: Amines. Strong acids and strong bases. Strong oxidizing agents.

Reactivity: Not available.

Conditions to avoid: High temperatures. Store away from incompatible materials. Heat, flames, sparks and other

sources of ignition.

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation.

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

Causes serious eye irritation. Eye contact:

May cause gastrointestinal tract irritation if swallowed. Ingestion:

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects | |
|--|--|---|--|
| Aluminium oxide - non fibrous form | None | Irritant, Nuisance dust, Corrosive | |
| Epoxy resin | None | Allergen, Irritant | |
| Silica, amorphous, fumed, crystal-free | None | Nuisance dust | |
| butyl glycidyl ether | Oral LD50 (Rat) = 2,000 mg/kg Oral LD50 (Rat) = 2.05 g/kg Oral LD50 (Mouse) = 1.53 g/kg Dermal LD50 (Rabbit) = 0.788 g/kg | Irritant, Allergen, Central nervous system, Liver, Mutagen | |
| Carbon black | Oral LD50 (Rat) = > 8,000 mg/kg | Respiratory, Some evidence of carcinogenicity | |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|----------------|-----------------|--|
| Aluminium oxide - non fibrous form | No | No | No |
| Epoxy resin | No | No | No |
| Silica, amorphous, fumed, crystal-free | No | No | No |
| butyl glycidyl ether | No | No | No |
| Carbon black | No | Group 2B | 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.

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)

IDH number: 1188112

Product name: LOCTITE ABLESTIK 285 BK known as ECCOBOND 285 BLK 18# INDIVIDUAL

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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

REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances

Control Act (TSCA) inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis. Immediate Health, Delayed Health CERCLA/SARA Section 311/312: CERCLA/SARA Section 313: None above reporting de minimis.

This product contains a chemical known in the State of California to cause cancer. This California Proposition 65:

product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

Canada Regulatory Information

IDH number: 1188112

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: 2,15,16

Prepared by: Product Safety and Regulatory Affairs

Issue date: 03/31/2020

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Omega Part# OB-200-16 and OB-200-2 Part B: Catalyst SDS-0003

Safety Data Sheet



Revision Number: 005.0 Issue date: 05/19/2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE CAT 17M-1 TAN known as

CATALYST 17M-1 TAN 4 OZ INDIV

Product type: Catalyst

Restriction of Use: None identified

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

IDH number: 1188010

Region: United States

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 SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING

DIFFICULTIES IF INHALED.

| HAZARD CLASS | HAZARD CATEGORY |
|---------------------------|-----------------|
| SKIN IRRITATION | 2 |
| EYE IRRITATION | 2A |
| RESPIRATORY SENSITIZATION | 1 |
| SKIN SENSITIZATION | 1 |

| PIC. | TOGR | AM | (S |
|------|------|----|----|



Precautionary Statements

Prevention: Avoid breathing vapors, mist, or spray. Wash affected area 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.

Response: IF ON SKIN: Wash with plenty of water. IF INHALED: If breathing is difficult, remove victim to

fresh air and keep at rest in a position comfortable for breathing. 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 eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a poison center or physician. Take

off contaminated clothing.

Storage: Not prescribed

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* |
|---|------------|-------------|
| Benzene-1,2:4,5-tetracarboxylic dianhydride | 89-32-7 | 40 - 50 |
| Hexahydromethylphthalic anhydride | 25550-51-0 | 40 - 50 |
| Substituted phthalic anhydride | 34090-76-1 | 1 - 5 |
| Benzene-1,2,4,5-tetracarboxylic acid | 89-05-4 | 1 - 5 |

^{*} 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. 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.

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. 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: 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.

IDH number: 1188010 Product name: LOCTITE CAT 17M-1 TAN known as CATALYST 17M-1 TAN 4 OZ INDIV
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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: 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 |
|---|-----------|----------|-----------|-------|
| Benzene-1,2:4,5-tetracarboxylic dianhydride | None | None | None | None |
| Hexahydromethylphthalic anhydride | None | None | None | None |
| Substituted phthalic anhydride | None | None | None | None |
| Benzene-1,2,4,5-tetracarboxylic acid | None | 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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid Color: Light brown

Mild Odor:

Odor threshold: Not available. Not available. pH: Vapor pressure: Not available. Boiling point/range: Not available Melting point/ range: Not available.

Specific gravity: 1.35

Decomposition temperature:

Vapor density: Not available. > 150 °C (> 302°F) Flash point: Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. Flammability: Not applicable **Evaporation rate:** Not available. Solubility in water: Not available. Partition coefficient (n-octanol/water): Not available. **VOC** content: < 0.5 % (by weight) Viscosity: Not available.

IDH number: 1188010 Product name: LOCTITE CAT 17M-1 TAN known as CATALYST 17M-1 TAN 4 OZ INDIV

Not available.

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10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: None under normal processing.

Hazardous decomposition

products:

IDH number: 1188010

Oxides of carbon. Irritating organic vapours.

Incompatible materials: Strong oxidizing agents. Strong acids and strong bases. Alcohols. Amines. Hydrolyzes in

presence of: Water

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: May cause respiratory tract irritation. May cause allergic respiratory reaction. Coughing.

Shortness of breath. Wheezing. Causes skin irritation. May cause allergic skin reaction.

Skin contact: Causes skin irritation. May ca Eye contact: Causes serious eye irritation.

Ingestion: May cause gastrointestinal tract irritation if swallowed. May be harmful if swallowed.

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects | |
|---|--|---|--|
| Benzene-1,2:4,5-tetracarboxylic dianhydride | Oral LD50 (Mouse) = 2,400 mg/kg Oral LD50 (Rat) = 2,250 mg/kg | Irritant, Respiratory, Allergen | |
| Hexahydromethylphthalic anhydride | None | Allergen, Respiratory, Irritant | |
| Substituted phthalic anhydride | None | Irritant, Allergen, Respiratory | |
| Benzene-1,2,4,5-tetracarboxylic acid | None | Allergen, Eyes, Irritant, Immune system, Lung | |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|----------------|-----------------|--|
| Benzene-1,2:4,5-tetracarboxylic dianhydride | No | No | No |
| Hexahydromethylphthalic anhydride | No | No | No |
| Substituted phthalic anhydride | No | No | No |
| Benzene-1.2.4.5-tetracarboxylic acid | No | No | No |

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

Product name: LOCTITE CAT 17M-1 TAN known as CATALYST 17M-1 TAN 4 OZ INDIV

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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: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:
Hazard class or division:
Identification number:
Packing group:

Not regulated
None
None
None

International Air Transportation (ICAO/IATA)

Proper shipping name:
Hazard class or division:
Identification number:
Packing group:

Not regulated
None
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: 1H,3H-Benzo[1,2-c:4,5-c']difuran-1,3,5,7-tetrone (CAS# 89-32-7).

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: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL 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. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities.

Please contact Regulatory Affairs for additional details.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2, 3

Prepared by: Debbie Friday, Regulatory Affairs Specialist

Issue date: 05/19/2017

IDH number: 1188010 Product name: LOCTITE CAT 17M-1 TAN known as CATALYST 17M-1 TAN 4 OZ INDIV

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Product name: LOCTITE CAT 17M-1 TAN known as CATALYST 17M-1 TAN 4 OZ INDIV

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IDH number: 1188010