

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.25.2018

Clear Epoxy Resin - Part A

SECTION 1: Identification

Product identifier

Product name: Clear Epoxy Resin - Part A

Product code: 50101, 50112, 50114, 50114H, 50132, 50240, 50240H

Recommended use of the product and restriction on use

Relevant identified uses: Adhesive Part A

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

J-B Weld Company, LLC

400 CMH Road

Sulphur Springs, TX 75482

903-885-7696

Emergency telephone number:

United States

CHEMTREC

Transportation Emergencies (24 hour): 800-424-9300 or

703-527-3887

Poison Control Centers (24 hour): medical emergencies 800-222-1222

SECTION 2: Hazard(s) identification

GHS classification:

Skin irritation, category 2

Eye irritation, category 2A

Skin sensitization, category 1

Label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Precautionary statements:

P264 Wash skin and eyes thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P272 Contaminated work clothing should not be allowed out of the workplace.

P321 Specific treatment (see supplemental first aid instructions on this label).

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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P332+P313 If skin irritation occurs: Get medical advice/attention
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists get medical advice/attention
 P363 Wash contaminated clothing before reuse
 P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
 P501 Dispose of contents/container in accordance with local regulations.
Hazards not otherwise classified: None

SECTION 3: Composition/Information on ingredients

Identification	Name	Weight %
CAS number: 3101-60-8	P-tert-butylphenyl 1-(2,3-epoxy)propyl ether	>5
CAS number: 25068-38-6	Epoxy Resin	>98

Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position
 Maintain an unobstructed airway
 Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water
 If symptoms develop or persist, seek medical attention
 Take off all contaminated clothing
 Gently blot or brush away excess product
 Wash with plenty of lukewarm, gently flowing water
 Get medical advice if skin irritation occurs or you feel unwell

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes
 If symptoms develop or persist, seek medical attention
 Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open
 Remove contact lenses, if present and easy to do so
 Continue rinsing for 15-20 minutes
 Get medical advice if eye irritation persists

After swallowing:

Rinse mouth thoroughly
 Seek medical attention if irritation, discomfort, or vomiting persists
Most important symptoms and effects, both acute and delayed
Acute symptoms and effects:

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Not determined or not applicable.

Delayed symptoms and effects:
Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Not determined or not applicable.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

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SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance. Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear liquid
Odor	Not available
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point/range	Not available
Flash point (closed cup)	135°C (275°F)
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper flammability/explosive limit	Not available
Lower flammability/explosive limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Density	1.15 g/cm ³

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Relative density	Not available
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not available
Auto/Self-ignition temperature	Not available
Decomposition temperature	Not available
Dynamic viscosity	Not available
Kinematic viscosity	Not available
Explosive properties	Not available
Oxidizing properties	Not available

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Skin corrosion/irritation

Assessment:

Causes skin irritation

Product data:

No data available.

Substance data:

Name	Epoxy Resin	Result
	P-tert-butylphenyl 1-(2,3-epoxy)propyl ether	Causes skin irritation.
		Causes skin irritation

Serious eye damage/irritation

Assessment:

Causes serious eye irritation

Product data:

No data available.

Substance data:

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Name	Result
Epoxy Resin	Causes serious eye irritation.
P-tert-butylphenyl 1-(2,3-epoxy)propyl ether	Causes serious eye damage

Respiratory or skin sensitization

Assessment: May cause an allergic skin reaction

Product data: No data available.

Substance data:

Name	Result
Epoxy Resin	May cause an allergic skin reaction.
P-tert-butylphenyl 1-(2,3-epoxy)propyl ether	Result : May cause sensitisation by skin contact.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

Substance data: No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

Substance data: No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

Substance data: No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

Substance data: No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

Substance data: No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

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No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Epoxy Resin	EC50 - Scenedesmus capricornutum - 9 mg/L - 48 h

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	UN 3082
UN proper shipping name	Environmentally hazardous substance, liquid, N.O.S. (Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxiran, P-tert-butylphenyl 1-(2,3-epoxy)propyl ether)

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UN transport hazard class(es)	9
Packing group	III
Environmental hazards	Marine Pollutant
Special precautions for user	None
EMS number	F-A, S-F
Stowage category	A
Excepted quantities	E1
Limited quantity	SL



International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN 3082
UN proper shipping name	Environmentally hazardous substance, liquid, N.O.S. (Phenol, 4,4'-(1-methylene)divinyl-, polymer with 2-(chloromethyl)oxiran, P-tert-butylphenyl 1-(2,3-epoxy)propyl ether)
UN transport hazard class(es)	9
Packing group	III
Environmental hazards	Marine Pollutant
Special precautions for user	None
ERG code	9L
Excepted quantities	E1
Passenger and cargo	450L
Cargo aircraft only	450L
Limited quantity	30 Kg G



SECTION 15: Regulatory information

United States regulations	
Inventory listing (TSCA):	
25068-38-6	Epoxy Resin
3101-60-8	P-tert-butylphenyl 1-(2,3-epoxy)propyl ether
Listed	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

25068-38-6	Epoxy Resin	Not Listed
3101-60-8	P-tert-butylphenyl 1-(2,3-epoxy)propyl ether	Not Listed

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CERCLA: Not determined.

RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.
 Massachusetts Right to Know:

25068-38-6	Epoxy Resin	Not Listed
3101-60-8	P-tert-butylphenyl 1-(2,3-epoxy)propyl ether	Not Listed

New Jersey Right to Know:

25068-38-6	Epoxy Resin	Not Listed
3101-60-8	P-tert-butylphenyl 1-(2,3-epoxy)propyl ether	Not Listed

New York Right to Know:

25068-38-6	Epoxy Resin	Not Listed
3101-60-8	P-tert-butylphenyl 1-(2,3-epoxy)propyl ether	Not Listed

Pennsylvania Right to Know:

25068-38-6	Epoxy Resin	Not Listed
3101-60-8	P-tert-butylphenyl 1-(2,3-epoxy)propyl ether	Not Listed

California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 2-0-0

HMS: 2-0-0

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Clear Epoxy Hardener - Part B

SECTION 1: Identification

Product identifier

Product name: Clear Epoxy Hardener - Part B

Product code: 50112, 50112H, 50114, 50114H, 50132, 50240, 50240H

Recommended use of the product and restriction on use

Relevant identified uses: Adhesive Part B

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

J-B Weld Company, LLC

400 CMH Road

Sulphur Springs, TX 75482

903-885-7696

info@jbweld.com

Emergency telephone number:

United States

CHEMTRAC

Transportation Emergencies (24 hour): 800-424-9300 or

703-527-3887

Poison Control Centers (24 hour): medical emergencies 800-222-1222

SECTION 2: Hazard(s) Identification

GHS classification:

Flammable liquids, category 4

Skin corrosion, category 1B

Skin sensitization, category 1

Eye irritation, category 2A

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H227 Combustible liquid.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash skin and eyes thoroughly after handling.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

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P272 Contaminated work clothing should not be allowed out of the workplace.
 P370+P378 In case of fire: Use agents recommended in section 5 for extinction.
 P310 Immediately call a POISON CENTER or doctor/physician.
 P321 Specific treatment (see supplemental first aid instructions on this label).
 P363 Wash contaminated clothing before reuse
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
 P337+P313 If eye irritation persists get medical advice/attention
 P403+P235 Store in a well ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local regulations.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 112-24-3	Amine	<5
CAS number: 100-51-6	Liquid additive	<2
CAS number: 72244-98-5	Curing Agent	>90
CAS number: 140-31-8	Amine	>5
CAS number: 25620-58-0	Amine	>5
CAS number: 39423-51-3	Amine	>5
CAS number: 3033-62-3	Amine	<1
CAS number: 919-30-2	Liquid additive	<2

Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

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Loosen clothing as necessary and position individual in a comfortable position

Get medical advice/attention if you feel unwell

Take precautions to ensure your own safety

Remove source of exposure or move person to fresh air and keep comfortable for breathing

Immediately call a POISON CONTROL CENTER or seek medical attention

If breathing has stopped, trained personnel should begin rescue breathing

Avoid mouth-to-mouth contact by using a barrier device

If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR)

After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Avoid direct contact and wear chemical protective clothing, if necessary

Immediately take off all contaminated clothing

Gently blot or brush away excess product

Rinse skin with lukewarm, gently flowing water until medical aid is available

Immediately call a POISON CONTROL CENTER or seek medical attention

Wash contaminated clothing before re-use or discard

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

Avoid direct contact and wear chemical protective gloves, if necessary

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open

Remove contact lenses, if present and easy to do so

Continue rinsing until medical aid is available

Immediately call a POISON CONTROL CENTER or seek medical attention

After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

Immediately call a POISON CONTROL CENTER or seek medical attention

Do not induce vomiting and rinse mouth

If vomiting occurs naturally, lie on your side, in the recovery position

If breathing has stopped, trained personnel should begin rescue breathing

Avoid mouth-to-mouth contact by using a barrier device

If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR)

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

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Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Shut off sources of ignition

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and combustion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Use spark-proof tools and explosion-proof equipment

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Take precautionary measures against electrostatic discharges.

Use only non-sparking tools.

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
WEEL	Liquid additive	100-51-6	WEEL TWA 10.0 ppm
	Amine	112-24-3	WEEL TWA 1.0 ppm

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Amine	3033-62-3	ACGIH TLV TWA 0.05 ppm
	Amine	3033-62-3	ACGIH TLV STEL 0.15 ppm

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use explosion-proof ventilation equipment.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance. Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear liquid
Odor	Not available
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point/range	Not available
Flash point (closed cup)	67°C (153°F)
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper flammability/explosive limit	Not available
Lower flammability/explosive limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Density	1.127 g/cm ³

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Relative density	Not available
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not available
Auto/Self-ignition temperature	Not available
Decomposition temperature	Not available
Dynamic viscosity	Not available
Kinematic viscosity	Not available
Explosive properties	Not available
Oxidizing properties	Not available

Other information

SECTION 10: Stability and reactivity

Reactivity: Does not react under normal conditions of use and storage.

Chemical stability: Stable under normal conditions of use and storage.

Possibility of hazardous reactions: Stable under normal conditions of use and storage.

Conditions to avoid: None under normal conditions of use and storage.

Incompatible materials: None known.

Hazardous decomposition products: None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
Liquid additive	inhalation	LC50 Rat: 4.178 mg/L (4 hr)
	oral	LD50 Rabbit: 1,040 mg/kg
Amine	oral	LD50 Rat: 1780 mg/kg
		LD50 - Chicken - 1,500 mg/kg
	dermal	LD50 - Rat - 550 mg/kg
		LD50 - Rat - 571 mg/kg
		LD50 - Rat - > 1,000 mg/kg
inhalation	LD50 - Rabbit - 750 mg/kg	
	LC50 - Rat - 4.0 mg/L - 4 h (aerosol)	

Skin corrosion/irritation

Assessment: Causes severe skin burns and eye damage

Product data: No data available.

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Substance data:

Name	Amine
Result	Corrosive to the skin, Causes skin burns Causes severe skin burns and eye damage. Corrosive to the skin, Causes severe skin burns and eye damage.
Name	Amine
Result	Corrosive to the eyes, Corrosive effect on the eyes.

Serious eye damage/irritation

Assessment:

Causes serious eye irritation

Product data:

No data available.

Substance data:

Respiratory or skin sensitization

Assessment:

May cause an allergic skin reaction

Product data:

No data available.

Substance data:

Name	Curing Agent
Result	May cause an allergic skin reaction.
Name	Amine
Result	May cause an allergic skin reaction, Sensitization possible through skin contact, Sensitization possible through skin contact, Sensitization possible through skin reaction.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

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Clear Epoxy Hardener - Part B

No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Amine	
LC50 - Daphnia magna (Water flea) - 33.9 mg/L - 48 h	
EC50 - Pseudokirchnerella subcapitata - 4.4 mg/L - 72 h	

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Curing Agent	
NOEC - Daphnia magna (Water flea) - 3.5 mg/L - 21 d	

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

Safety Data Sheet

Clear Epoxy Hardener - Part B

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN 2735
UN proper shipping name	Amines, Liquid, Corrosive, n.o.s. (Triethylenetetramine, 1-Piperazineethanamine)
UN transport hazard class(es)	8
Packing group	III
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	UN 2735
UN proper shipping name	Amines, Liquid, Corrosive, n.o.s. (Triethylenetetramine, 1-Piperazineethanamine)
UN transport hazard class(es)	8
Packing group	III
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN 2735
UN proper shipping name	Amines, Liquid, Corrosive, n.o.s. (Triethylenetetramine, 1-Piperazineethanamine)
UN transport hazard class(es)	8
Packing group	III
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

**United States regulations
 Inventory listing (TSCA):**

72244-98-5	Curing Agent	Listed
100-51-6	Liquid additive	Listed
140-31-8	Amine	Listed

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25620-58-0	Amine	Listed
112-24-3	Amine	Listed
39423-51-3	Amine	Listed
3033-62-3	Amine	Listed
919-30-2	Liquid additive	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

72244-98-5	Curing Agent	Not Listed
100-51-6	Liquid additive	Not Listed
140-31-8	Amine	Not Listed
25620-58-0	Amine	Not Listed
112-24-3	Amine	Not Listed
39423-51-3	Amine	Not Listed
3033-62-3	Amine	Not Listed
919-30-2	Liquid additive	Not Listed

CERCLA: Not determined.

RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

72244-98-5	Curing Agent	Not Listed
100-51-6	Liquid additive	Listed
140-31-8	Amine	Listed
25620-58-0	Amine	Listed
112-24-3	Amine	Listed
39423-51-3	Amine	Listed
3033-62-3	Amine	Not Listed
919-30-2	Liquid additive	Not Listed

New Jersey Right to Know:

72244-98-5	Curing Agent	Not Listed
100-51-6	Liquid additive	Not Listed
140-31-8	Amine	Listed

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.25.2018

Clear Epoxy Hardener - Part B

25620-58-0	Amine	Listed
112-24-3	Amine	Listed
39423-51-3	Amine	Not Listed
3033-62-3	Amine	Listed
919-30-2	Liquid additive	Not Listed

New York Right to Know:

72244-98-5	Curing Agent	Not Listed
100-51-6	Liquid additive	Not Listed
140-31-8	Amine	Listed
25620-58-0	Amine	Listed
112-24-3	Amine	Listed
39423-51-3	Amine	Listed
3033-62-3	Amine	Not Listed
919-30-2	Liquid additive	Not Listed

Pennsylvania Right to Know:

72244-98-5	Curing Agent	Not Listed
100-51-6	Liquid additive	Listed
140-31-8	Amine	Listed
25620-58-0	Amine	Listed
112-24-3	Amine	Listed
39423-51-3	Amine	Not Listed
3033-62-3	Amine	Not Listed
919-30-2	Liquid additive	Not Listed

California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 3-1-0

HMS: 3-1-0

Initial preparation date: 07.25.2018

End of Safety Data Sheet