

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.17.2019

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Revision date: 05.08.2019

Wood Restore Liquid Epoxy Part A

SECTION 1: Identification

Product identifier

Product name: Wood Restore Liquid Epoxy Part A

Product code: 40002-A



Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable.

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

InfoTrac

Transportation Emergencies (24 hour): 800-535-5053

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 hands thoroughly after handling.

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

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

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

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

P362 Take off contaminated clothing and wash before reuse

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

P333+P313 If skin irritation or a rash 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

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: 2425-79-8	Diluent	5-10
CAS number: 25068-38-6	Epoxy resin	90-95

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:

Remove victim to fresh air and place in a position comfortable for breathing. If respiratory symptoms develop and persist or if feeling unwell: seek medical advice/attention. If breathing is difficult, administer oxygen. If breathing has stopped, trained personnel should begin rescue breathing and get emergency medical aid

After skin contact:

Take off all contaminated clothing. Rinse affected area with soap and water. Gently blot or brush away excess product. If skin irritation develops or persists, seek medical advice/attention

After eye contact:

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

Continue rinsing. Seek medical attention

Remove contact lenses, if present and easy to do so

After swallowing:

Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel. If vomiting spontaneously occurs, place victim on side in the recovery position to prevent aspiration into the lungs. Never give anything by mouth to an unconscious person. If experiencing symptoms or concerned: Contact a POISON CENTER or doctor/physician

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Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Causes eye irritation, skin irritation and allergic skin reaction. Symptoms include redness, tearing, burning, inflammation of eyes, reddening, itching of skin with subsequent inflammation

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:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

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

Wear recommended personal protective equipment (see Section 8)

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

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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.
- Wear recommended personal protective equipment (see Section 8).

Conditions for safe storage, including any incompatibilities:

- Keep container tightly sealed.
- Protect from freezing and physical damage.
- Store in a cool, well-ventilated area.

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	Liquid
Odor	Slight odor
Odor threshold	Not determined or not available.

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pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Slower (relative to n-butyl acetate)
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Heavier than air
Density	Not determined or not available.
Relative density	0.98
Solubilities	Negligible (< 0.1%) solubility in water.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or 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:

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Name	Route	Result
Diluent	dermal	LD50 - Rabbit - 1,130 mg/kg

Skin corrosion/irritation

Assessment:

Causes skin irritation

Product data:

No data available.

Substance data:

Name	Result
Epoxy resin	Causes skin irritation.
Diluent	Causes skin irritation.

Serious eye damage/irritation

Assessment:

Causes serious eye irritation

Product data:

No data available.

Substance data:

Name	Result
Epoxy resin	Causes serious eye irritation.
Diluent	Causes serious eye irritation.

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.
Diluent	May cause an allergic 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.

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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:

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
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.

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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
Additional Information	Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. This product is not regulated as a hazardous material as it is transported in sizes of ≤ 5 L or ≤ 5 kg and the packagings meet the general provisions of §§ 173.24 and 173.24a.

International Maritime Dangerous Goods (IMDG)

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
Additional Information	This product is not regulated as a dangerous good as it is transported in sizes of ≤ 5 L or ≤ 5 kg and the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

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

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
Additional Information	This product is not regulated as a dangerous good as it is transported in sizes of ≤ 5 L or ≤ 5 kg and the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

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SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

25068-38-6	Epoxy resin	Listed
2425-79-8	Diluent	Listed

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals: None of the ingredients are listed.

CERCLA: None of the ingredients are listed.

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

25068-38-6	Epoxy resin	Not Listed
2425-79-8	Diluent	Not Listed

New Jersey Right to Know:

25068-38-6	Epoxy resin	Listed
2425-79-8	Diluent	Not Listed

New York Right to Know:

25068-38-6	Epoxy resin	Listed
2425-79-8	Diluent	Not Listed

Pennsylvania Right to Know:

25068-38-6	Epoxy resin	Listed
2425-79-8	Diluent	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

HMIS: 2-0-0

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End of Safety Data Sheet

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Wood Restore Liquid Epoxy Part B

SECTION 1: Identification

Product identifier

Product name: Wood Restore Liquid Epoxy Part B

Product code: 40002-B



Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable.

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

InfoTrac

Transportation Emergencies (24 hour): 800-535-5053

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

SECTION 2: Hazard(s) identification

GHS classification:

Serious eye damage, category 1

Skin corrosion, category 1B

Skin sensitization, category 1

Acute toxicity (oral), category 4

Specific target organ toxicity - repeated exposure, category 2

Reproductive toxicity, category 2

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H318 Causes serious eye damage.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

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H373 May cause damage to organs (liver, muscles) through prolonged or repeated exposure.

H361 Suspected of damaging fertility or the unborn child.

Precautionary statements:

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

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

P264 Wash hands thoroughly after handling.

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

P270 Do not eat, drink or smoke when using this product.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 Wash contaminated clothing before reuse

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

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308+P313 If exposed or concerned: Get medical advice/attention

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: 100-51-6	Benzyl Alcohol	25-30
CAS number: 25068-38-6	Resin	5-10
CAS number: 39423-51-3	Amine curing agent	15-20
CAS number: 3033-62-3	Amine curing agent	1-5
CAS number: 6674-22-2	Amine curing agent	1-5
CAS number: 98-54-4	Amine curing agent	10-15
CAS number: 2855-13-2	Isophorondiamine	15-20
CAS number: 1761-71-3	Amine curing agent	1-5

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CAS number: 69-72-7	Additive	1-5
CAS number: 1760-24-3	Liquid additive	1-5
CAS number: 84852-15-3	Curing agent	5-10
CAS number: 68609-08-5	Amine curing agent	1-5

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:

Remove victim to fresh air and place in a position comfortable for breathing. If respiratory symptoms develop and persist or if feeling unwell: seek medical advice/attention. If breathing is difficult, administer oxygen. If breathing has stopped, trained personnel should begin rescue breathing and get emergency medical aid

After skin contact:

Take off all contaminated clothing. Rinse affected area with soap and water. Gently blot or brush away excess product. If skin irritation develops or persists, seek medical advice/attention

After eye contact:

Continue rinsing. Seek immediate 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

After swallowing:

Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel. If vomiting spontaneously occurs, place victim on side in the recovery position to prevent aspiration into the lungs. Never give anything by mouth to an unconscious person. If experiencing symptoms or concerned: Contact a POISON CENTER or doctor/physician

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Causes serious eye damage. Symptoms include redness, tearing, burning, inflammation and corneal damage. Causes skin burns and allergic skin reaction. Symptoms include reddening, blisters and burning; subsequent inflammation may occur
Maybe harmful if swallowed. Symptoms include nausea, vomiting, abdominal pain, and lowering of consciousness. Adverse effects are dependent on exposure (dose, concentration, contact time).

Delayed symptoms and effects:

Long term exposure may affect fertility. Symptoms include, but are not limited to: menstrual problems, altered sexual behavior/fertility/ and pregnancy outcome. Long term exposure may also affect

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development of the unborn child. Symptoms include, but are not limited to: intrauterine growth retardation, pre-term birth, birth defects and postnatal death
May cause damage to liver and muscles through prolonged or repeated exposure

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:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

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

Wear recommended personal protective equipment (See Section 8)

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.

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

Wear recommended personal protective equipment (see Section 8).

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

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	Benzyl Alcohol	100-51-6	WEEL TWA 10.0 ppm
ACGIH	Amine curing agent	3033-62-3	ACGIH TLV TWA 0.05 ppm
	Amine curing agent	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.

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
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Odor	Slight odor
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Slower (relative to n-butyl acetate)
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Heavier than air
Density	Not determined or not available.
Relative density	1.04
Solubilities	Negligible (< 0.1%) solubility in water.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or 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:

Harmful if swallowed

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Product data: No data available.

Substance data:

Name	Route	Result
Benzyl Alcohol	inhalation	LC50 Rat: 4.178 mg/L (4 hr)
	oral	LD50 Rabbit: 1,040 mg/kg
Isophorondiamine	oral	LD50 Rat: 1030 mg/kg
Amine curing agent	oral	LD50 - Rat - 380 mg/kg
		LD50 - Rat : 300 - 2000 mg/kg
		LD50 - Rat - 571 mg/kg
		LD50 - Rat - 550 mg/kg
		LD50 - Rat - 251 - <300 mg/kg
	inhalation	LC50 - Rat - 4.0 mg/L - 4 h (aerosol)
dermal	LD50 - Rabbit - 750 mg/kg	
	LD50 - Rat - > 1,000 mg/kg	
Additive	oral	LD50 Oral - Rat - male - 891 mg/kg
	dermal	LD50 - Rabbit - > 10000 mg/kg
Curing agent	oral	LD50 - Rat - 1,300 mg/kg

Skin corrosion/irritation

Assessment:

Causes severe skin burns and eye damage

Product data:

No data available.

Substance data:

Name	Result
Amine curing agent	Corrosive to the skin.
	Causes skin irritation.
	Causes severe skin burns.
	Corrosive to the skin.
	Corrosive to the skin.
Isophorondiamine	Causes severe skin burns.
Resin	Causes skin irritation.
Curing agent	Corrosive to the skin.
Liquid additive	Causes skin irritation.

Serious eye damage/irritation

Assessment:

Causes serious eye damage

Product data:

No data available.

Substance data:

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Name	Result
Amine curing agent	Causes serious eye damage.
	Corrosive effect on the eyes.
	Causes serious eye damage.
	Corrosive effect on the eyes.
	Corrosive to the eyes.
	Corrosive effect on the eyes.
Additive	Causes serious eye damage
Resin	Causes serious eye irritation.
Curing agent	Corrosive to the eyes.
Liquid additive	Causes serious eye damage.

Respiratory or skin sensitization

Assessment:

May cause an allergic skin reaction

Product data:

No data available.

Substance data:

Name	Result
Amine curing agent	Sensitization possible through skin contact.
	May cause an allergic skin reaction.
Isophorondiamine	May cause an allergic skin reaction.
Resin	May cause an allergic skin reaction.
Liquid additive	May cause an allergic 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:

Suspected of damaging fertility or the unborn child

Product data:

No data available.

Substance data:

Name	Result
Amine curing agent	Suspected of damaging fertility.

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Name	Result
Curing agent	Suspected human reproductive toxicant.

Specific target organ toxicity (single exposure)

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

Product data:

No data available.

Substance data:

Name	Result
Amine curing agent	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Assessment:

May cause damage to organs through prolonged or repeated exposure

Product data:

No data available.

Substance data:

Name	Result
Amine curing agent	Ingestion - May cause damage to organs through prolonged or repeated exposure. - Liver, Musculo-skeletal system

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:

Toxic to aquatic life

Product data: No data available.

Substance data:

Name	Result
Amine curing agent	LC50 - Rainbow Trout - > 100 mg/L - (96 H)
	EC50 - Green Algae - 140 mg/L - (72 H)
	EC50 - Daphnia magna - 7.64 mg/L - (48 H)
	EC50 - Pseudokirchnerella subcapitata - 4.4 mg/L - 72 h
Additive	LC50 - Pimephales promelas - 1380 mg/L - (96 H)
	EC50 - Daphnia magna - 870 mg/L - (48 H)

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Name	Result
Isophorondiamine	LC50 - Daphnia magna (Water flea) - 17.4 mg/L - 48 h
Resin	EC50 - Scenedesmus capricornutum - 9 mg/L - 48 h
Curing agent	flow-through test LC50 - Lepomis macrochirus - 0.209 mg/l - 96 h
	semi-static test EC50 - Daphnia magna (Water flea) - 0.0844 mg/l - 48 h
	static test EC50 - Selenastrum capricornutum (green algae) - 0.33 mg/l - 72 h
Liquid additive	LC50 - Danio rerio - 597 mg/L (96 H)
	EC50 - Daphnia magna - 81 mg/L - (48 H)
	NOEC - Pseudokirchneriella subcapitata - 3.1 mg/L - 96 H
	EC50 - Pseudokirchneriella subcapitata - 8.8 mg/L - 96 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
Amine curing agent	NOEC - Daphnia magna - 4 mg/L - (21 d)
	NOEC Pimephales promelas: 0.01 mg/L (128 d)
Additive	NOEC - Daphnia magna - 10 mg/L - (21 d)

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
Amine curing agent	Not readily biodegradable.
Additive	Readily biodegradable in water.
Amine curing agent	Readily biodegradable but failing 10-day window.
Amine curing agent	Not readily biodegradable.
Curing agent	Inherently biodegradable.
Liquid additive	Not readily biodegradable. (28 d) 39%

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Additive	Substance has low potential for bioaccumulation.

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

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SECTION 14: Transport information


United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN 1760
UN proper shipping name	Corrosive liquid, N.O.S. (Cyclohexanamine, 4,4'-methylenebis-, Isophorone diamine)
UN transport hazard class(es)	8 
Packing group	II
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	UN 1760
UN proper shipping name	Corrosive liquid, N.O.S. (Cyclohexanamine, 4,4'-methylenebis-, Isophorone diamine)
UN transport hazard class(es)	8 
Packing group	II
Environmental hazards	This material is shipped in quantities of less than 5L and as such does not need to be marked as an Environmentally Hazardous Substance.
Special precautions for user	None

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

UN number	UN 1760
UN proper shipping name	Corrosive liquid, N.O.S. (Cyclohexanamine, 4,4'-methylenebis-, Isophorone diamine)
UN transport hazard class(es)	8 
Packing group	II
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

100-51-6	Benzyl Alcohol	Listed
1761-71-3	Amine curing agent	Listed
69-72-7	Additive	Listed
2855-13-2	Isophorondiamine	Listed

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98-54-4	Amine curing agent	Listed
68609-08-5	Amine curing agent	Listed
3033-62-3	Amine curing agent	Listed
25068-38-6	Resin	Listed
84852-15-3	Curing agent	Listed
39423-51-3	Amine curing agent	Listed
1760-24-3	Liquid additive	Listed
6674-22-2	Amine curing agent	Listed

Significant New Use Rule (TSCA Section 5):

84852-15-3	Curing agent	Listed
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Export notification under TSCA Section 12(b):

84852-15-3	Curing agent	Listed
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SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals:

100-51-6	Benzyl Alcohol	Not Listed
1761-71-3	Amine curing agent	Not Listed
69-72-7	Additive	Not Listed
2855-13-2	Isophorondiamine	Not Listed
98-54-4	Amine curing agent	Not Listed
68609-08-5	Amine curing agent	Not Listed
3033-62-3	Amine curing agent	Not Listed
25068-38-6	Resin	Not Listed
84852-15-3	Curing agent	Listed
39423-51-3	Amine curing agent	Not Listed
1760-24-3	Liquid additive	Not Listed
6674-22-2	Amine curing agent	Not Listed

CERCLA: None of the ingredients are listed.

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

100-51-6	Benzyl Alcohol	Listed
1761-71-3	Amine curing agent	Not Listed

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69-72-7	Additive	Not Listed
2855-13-2	Isophorondiamine	Not Listed
98-54-4	Amine curing agent	Not Listed
68609-08-5	Amine curing agent	Not Listed
3033-62-3	Amine curing agent	Not Listed
25068-38-6	Resin	Not Listed
84852-15-3	Curing agent	Listed
39423-51-3	Amine curing agent	Not Listed
1760-24-3	Liquid additive	Not Listed
6674-22-2	Amine curing agent	Not Listed

New Jersey Right to Know:

100-51-6	Benzyl Alcohol	Not Listed
25068-38-6	Resin	Listed
1761-71-3	Amine curing agent	Not Listed
69-72-7	Additive	Not Listed
2855-13-2	Isophorondiamine	Listed
98-54-4	Amine curing agent	Not Listed
68609-08-5	Amine curing agent	Not Listed
3033-62-3	Amine curing agent	Listed
84852-15-3	Curing agent	Not Listed
39423-51-3	Amine curing agent	Not Listed
1760-24-3	Liquid additive	Not Listed
6674-22-2	Amine curing agent	Not Listed

New York Right to Know:

100-51-6	Benzyl Alcohol	Not Listed
25068-38-6	Resin	Listed

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1761-71-3	Amine curing agent	Not Listed
69-72-7	Additive	Not Listed
2855-13-2	Isophorondiamine	Listed
98-54-4	Amine curing agent	Not Listed
68609-08-5	Amine curing agent	Not Listed
3033-62-3	Amine curing agent	Not Listed
84852-15-3	Curing agent	Not Listed
39423-51-3	Amine curing agent	Not Listed
1760-24-3	Liquid additive	Not Listed
6674-22-2	Amine curing agent	Not Listed

Pennsylvania Right to Know:

100-51-6	Benzyl Alcohol	Listed
25068-38-6	Resin	Listed
1761-71-3	Amine curing agent	Not Listed
69-72-7	Additive	Not Listed
2855-13-2	Isophorondiamine	Not Listed
98-54-4	Amine curing agent	Not Listed
68609-08-5	Amine curing agent	Not Listed
3033-62-3	Amine curing agent	Not Listed
84852-15-3	Curing agent	Listed
39423-51-3	Amine curing agent	Not Listed
1760-24-3	Liquid additive	Not Listed
6674-22-2	Amine curing agent	Not Listed

California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

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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: 3-0-0

HMIS: 3-0-0

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End of Safety Data Sheet