

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.04.2019

Page 1 of 13

Wood Restore - Wood Filler

SECTION 1: Identification

Product identifier

Product name: Wood Restore - Wood Filler

Product code: 40003, 40004



Recommended use of the product and restriction on use

Relevant identified uses: Paints and coatings. This product should only be used for industrial applications and is not intended to be used by children. Keep away from children.

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:

Flammable liquids, category 3

Eye irritation, category 2A

Skin irritation, category 2

Aspiration hazard, category 1

Acute toxicity (inhalation), category 4

Specific target organ toxicity - single exposure, category 3, respiratory irritation

Specific target organ toxicity - repeated exposure, category 1

Reproductive toxicity, category 2

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H226 Flammable liquid and vapor.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.04.2019

Page 2 of 13

Wood Restore - Wood Filler

H319 Causes serious eye irritation.
H315 Causes skin irritation.
H304 May be fatal if swallowed and enters airways.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H372 Causes damage to organs (ear) through prolonged or repeated exposure by Inhalation.
H361 Suspected of damaging the unborn child.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
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.
P370+P378 In case of fire: Use agents recommended in section 5 for extinction.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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
P321 Specific treatment (see supplemental first aid instructions on this label).
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.
P314 Get medical advice/attention if you feel unwell
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P308+P313 If exposed or concerned: Get medical advice/attention
P403+P235 Store in a well ventilated place. Keep cool.
P405 Store locked up.
P403+P233 Store in a well ventilated place. Keep container tightly closed.
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: 14807-96-6	Talc (Non asbestos)	45-55
CAS number: 13463-67-7	Titanium Dioxide	8-10

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.04.2019

Page 3 of 13

Wood Restore - Wood Filler

CAS number: 65997-17-3	Glass enamel	10-15
CAS number: 100-42-5	Styrene	35-45

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).

Fiberglass powder (CAS # 65997-17-3) is classified as a carcinogen in its inhalable form. Since the fiberglass powder in this product is not inhalable, the product itself is not classified as a carcinogen in the form presented.

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

If inhaled, removed person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention

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:

Get immediate medical attention. Aspiration hazard. Do not induce vomiting or give anything by mouth because this material can enter lungs and cause Chemical Pneumonitis. Do not induce vomiting unless instructed to do so by poison center or physician

If vomiting spontaneously occurs, place victim on side in the recovery position to prevent aspiration into the lungs

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Eye irritation, skin irritation, aspiration, respiratory irritation. Symptoms may include redness, itching, corneal irritation, difficulty breathing, cough, vomiting, dizziness

Delayed symptoms and effects:

Causes damage to ear through prolonged exposure by inhalation. Causes damage to unborn child

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.04.2019

Page 4 of 13

Wood Restore - Wood Filler

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material

Unsuitable extinguishing media:

Do not use a water stream as an extinguisher

Specific hazards during fire-fighting:

Vapors can flow to distant ignition sources and flashback

Liquid is volatile and may generate an explosive atmosphere

Thermal decomposition can lead to release of oxides of carbon and other potentially toxic fumes

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:

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

During fire, water spray can scatter flames and should be used by experienced firefighters

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

Beware of vapors accumulating to form explosive concentrations

Vapors can accumulate in low areas

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

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.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.04.2019

Page 5 of 13

Wood Restore - Wood Filler

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.

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

Store in closed containers away strong oxidizing agents.

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
United States (OSHA)	Talc (Non asbestos)	14807-96-6	OSHA PEL Ceiling 20 mppcf
	Styrene	100-42-5	8 Hour (PEL-TWA) : 100 ppm
	Titanium Dioxide	13463-67-7	OSHA PEL TWA 15 mg/m ³ (Total dust)
	Glass enamel	65997-17-3	8-Hour Exposure Limit (PEL-TWA): 15 mg/m ³
	Glass enamel	65997-17-3	8-Hour Exposure Limit (PEL-TWA): 5 mg/m ³ (respirable)
	Glass enamel	65997-17-3	8-Hour Exposure Limit (PEL-TWA): 15 mg/m ³ (total dust)
	Glass enamel	65997-17-3	8-Hour Exposure Limit (PEL-TWA): 15 mg/m ³ (fibrous glass)
	Glass enamel	65997-17-3	8-Hour Exposure Limit (PEL-TWA): 15 mg/m ³ (fibrous glass as total dust)
	Glass enamel	65997-17-3	8-Hour Exposure Limit (PEL-TWA): 5 mg/m ³ (fibrous glass - respirable)
	Glass enamel	65997-17-3	10-Hour Exposure Limite (REL-TWA): 3 fibers/cm ³ (fibers ≤3.5 µm in diameter, ≥10 µm in length); 5 mg/m ³ (total)
	Glass enamel	65997-17-3	10-Hour Exposure Limite (REL-TWA): 15 mg/m ³ (fibrous glass - total))
	Glass enamel	65997-17-3	8-Hour Exposure Limit (TLV-TWA): 5 mg/m ³ (continuous filament glass fibers as inhalable particulate matter)
ACGIH	Talc (Non asbestos)	14807-96-6	ACGIH TLV TWA 2 mg/m ³ ; (Inhalable particulate matter containing no asbestos and < 1% crystalline silica)
	Styrene	100-42-5	8 hour (TLV-TWA) : 10 ppm
	Titanium Dioxide	13463-67-7	ACGIH TLV TWA 10 mg/m ³
	Styrene	100-42-5	15-minute (STEL) : 20 ppm
	Glass enamel	65997-17-3	8-Hour Exposure Limit (TLV-TWA): 1 fibers/cm ³

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.04.2019

Page 6 of 13

Wood Restore - Wood Filler

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Glass enamel	65997-17-3	8-Hour Exposure Limit (TLV-TWA): 1 fiber/cc (continuous filament glass fibers)
	Glass enamel	65997-17-3	8-Hour Exposure Limit (TLV-TWA): 5 mg/m ³ (continuous filament glass fibers as inhalable particulate matter);
NIOSH	Talc (Non asbestos)	14807-96-6	NIOSH REL TWA 2.0 mg/m ³
	Styrene	100-42-5	8 Hour (TWA) : 215 mg/m ³ (50 ppm)
	Styrene	100-42-5	15-minute (STEL): 425 mg/m ³ (100 ppm)
	Styrene	100-42-5	10-hour (REL) : 215 mg/m ³ (50 ppm)
	Titanium Dioxide	13463-67-7	IDLH: 5,000 mg/m ³
	Glass enamel	65997-17-3	NIOSH Recommended exposure limit (REL) [for up to a 10-hour workday during a 40-hour workweek] is: 3 fibers/cm ³
	Glass enamel	65997-17-3	10-Hour Exposure Limite (REL-TWA): 3 fibers/cm ³ (fibers ≤3.5 µm in diameter, ≥10 µm in length)
	Glass enamel	65997-17-3	10-Hour Exposure Limite (REL-TWA): 15 mg/m ³ (fibrous glass - total))
United States (California)	Styrene	100-42-5	8 Hour (TWA) : 215 mg/m ³ (50 ppm)
	Styrene	100-42-5	15-minute (STEL) : 425 mg/m ³ (100 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.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.04.2019

Page 7 of 13

Wood Restore - Wood Filler

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	Off-white paste
Odor	Mineral spirits
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point/range	148.8°C (300°F)
Flash point (closed cup)	40°C (104°F) PMCC
Evaporation rate	> 1 Butyl Acetate = 1
Flammability (solid, gas)	Flammable
Upper flammability/explosive limit	6 Vol. %
Lower flammability/explosive limit	1 Vol. %
Vapor pressure	2 mmHg
Vapor density	4.9 Air = 1
Density	Not determined or not available.
Relative density	1.07 - 1.10. ASTM D-1475-98
Solubilities	None.
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

VOC	1.46 lbs/gal or 175 g/L
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SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable at normal temperatures and pressures.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.04.2019

Page 8 of 13

Wood Restore - Wood Filler

Possibility of hazardous reactions:

Will not occur.

Conditions to avoid:

Heat, sparks or open flames.

Incompatible materials:

Oxidizing agents.

Hazardous decomposition products:

Oxides of carbon and other potentially toxic fumes.

SECTION 11: Toxicological information

Acute toxicity

Assessment:

Harmful if inhaled

Product data: No data available.

Substance data:

Name	Route	Result
Styrene	oral	LD50 - Rat - > 5000 mg/kg
	dermal	LD50 - Rat - > 2000 mg/kg
	inhalation	LC50 - Rat - 11.8 mg/L (4 h)

Skin corrosion/irritation

Assessment:

Causes skin irritation

Product data:

No data available.

Substance data: No data available.

Serious eye damage/irritation

Assessment:

Causes serious eye irritation

Product data:

No data available.

Substance data: No data available.

Respiratory or skin sensitization

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

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

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

Product data: No data available.

Substance data:

Name	Species	Result
Glass enamel	Not applicable	May cause cancer via inhalation.
Titanium Dioxide	Not applicable.	Airborne, unbound particles of respirable size are known to cause cancer.

International Agency for Research on Cancer (IARC):

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.04.2019

Page 9 of 13

Wood Restore - Wood Filler

Name	Classification
Talc (Non asbestos)	Group 3 - Not classifiable as to its carcinogenicity to humans
Glass enamel	Group 2B
Titanium Dioxide	Group 2B

National Toxicology Program (NTP):

Name	Classification
Glass enamel	Reasonably anticipated to be human carcinogens

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: No data available.

Specific target organ toxicity (single exposure)

Assessment:

May cause respiratory irritation

Product data:

No data available.

Substance data:

Name	Result
Styrene	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Assessment:

Causes damage to organs through prolonged or repeated exposure

Product data:

No data available.

Substance data:

Name	Result
Styrene	Causes damage to ear through prolonged or repeated inhalation.

Aspiration toxicity

Assessment:

May be fatal if swallowed and enters airways

Product data:

No data available.

Substance data:

Name	Result
Styrene	May be fatal if swallowed and enters airways.

Information on likely routes of exposure:

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.04.2019

Page 10 of 13

Wood Restore - Wood Filler

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
Styrene	LC50 - Freshwater fish - 4.02 mg/L
	LC50 - Daphnia magna - 4.7 mg/l (48 h)
	LC50 - Freshwater algae - 4.9 mg/L
	LC50 - Pseudomonas putida - 72 mg/L

Chronic (long-term) toxicity

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

Product data: No data available.

Substance data:

Name	Result
Styrene	LC50 - Pimephales promelas - 4.02 mg/l (96 h)
	LC50 - Daphnia magna - >3.84 mg/L (48 h)

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
Styrene	Readily biodegradable in water.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Styrene	Does not bioaccumulate.

Mobility in soil

Product data: No data available.

Substance data:

Name	Result
Styrene	Koc at 20 °C: 352; Adsorption to solid soil phase is possible

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

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200


Initial preparation date: 04.04.2019

Page 11 of 13


Wood Restore - Wood Filler

SECTION 14: Transport information


United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN 3269
UN proper shipping name	Polyester Resin Kit
UN transport hazard class(es)	3 
Packing group	III
Environmental hazards	None
Special precautions for user	None
Passenger air/rail	5 Kg
Cargo aircraft only	5 Kg
Stowage category	B

International Maritime Dangerous Goods (IMDG)

UN number	UN 3269
UN proper shipping name	Polyester Resin Kit
UN transport hazard class(es)	3 
Packing group	III
Environmental hazards	None
Special precautions for user	None
EmS number	F-E, S-D
Stowage category	A
Limited quantity	5L

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

UN number	UN 3269
UN proper shipping name	Polyester Resin Kit
UN transport hazard class(es)	3 
Packing group	III
Environmental hazards	None
Special precautions for user	None
ERG code	3L
Excepted quantities	E0
Passenger and cargo	10 Kg
Cargo aircraft only	10 Kg
Limited quantity	5 Kg

SECTION 15: Regulatory information

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.04.2019

Page 12 of 13

Wood Restore - Wood Filler

United States regulations

Inventory listing (TSCA):

14807-96-6	Talc (Non asbestos)	Listed
100-42-5	Styrene	Listed
65997-17-3	Glass enamel	Listed
13463-67-7	Titanium Dioxide	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:

14807-96-6	Talc (Non asbestos)	Not Listed
100-42-5	Styrene	Listed
65997-17-3	Glass enamel	Not Listed
13463-67-7	Titanium Dioxide	Not Listed

CERCLA:

100-42-5	Styrene	Listed	1000 lbs.
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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:

14807-96-6	Talc (Non asbestos)	Listed
100-42-5	Styrene	Listed
65997-17-3	Glass enamel	Listed
13463-67-7	Titanium Dioxide	Listed

New Jersey Right to Know:

14807-96-6	Talc (Non asbestos)	Listed
100-42-5	Styrene	Listed
65997-17-3	Glass enamel	Listed
13463-67-7	Titanium Dioxide	Listed

New York Right to Know:

14807-96-6	Talc (Non asbestos)	Not Listed
100-42-5	Styrene	Listed
65997-17-3	Glass enamel	Listed
13463-67-7	Titanium Dioxide	Listed

Pennsylvania Right to Know:

14807-96-6	Talc (Non asbestos)	Listed
100-42-5	Styrene	Listed
65997-17-3	Glass enamel	Listed
13463-67-7	Titanium Dioxide	Listed

California Proposition 65:

⚠ WARNING: This product can expose you to chemicals including Styrene and Titanium Dioxide which

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.04.2019

Page 13 of 13

Wood Restore - Wood Filler

are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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: 3-2-0

HMIS: 3-2-0

Initial preparation date: 04.04.2019

End of Safety Data Sheet

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2019

Page 1 of 11

Wood Restore Repair Putty Hardener

SECTION 1: Identification

Product identifier

Product name: Wood Restore Repair Putty Hardener

Product code: 40003, 40004 Part B



Recommended use of the product and restriction on use

Relevant identified uses: Dibenzoyl peroxide, paste. Hardening/Curing agent. Catalyst.

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:

Organic peroxides, type E

Eye irritation, category 2A

Skin sensitization, category 1

Label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:

H242 Heating may cause a fire.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Precautionary statements:

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

P220 Keep/Store away from clothing/combustible materials.

P234 Keep only in original container.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2019

Page 2 of 11

Wood Restore Repair Putty Hardener

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

P264 Wash hands thoroughly after handling.

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

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

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

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

P363 Wash contaminated clothing before reuse

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

P410 Protect from sunlight.

P420 Store away from other materials.

P411+P235 Store at temperatures not exceeding 30°C. Keep cool.

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: 94-36-0	Benzoyl peroxide	45-52
CAS number: 5444-75-7	2-Ethylhexyl benzoate	10-20
CAS number: 107-21-1	Ethane-1,2-diol	5-10
CAS number: 13397-24-5	Gypsum	22-26

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. Seek medical advice/attention if symptoms develop or if concerned

After eye contact:

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2019

Page 3 of 11

Wood Restore Repair Putty Hardener

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:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Symptoms related to skin sensitizing may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis

Symptoms related to eye irritation may include redness, pain, inflammation, itching, burning, and tearing

Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time)

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Treat symptomatically

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

CO₂, powder or water spray. Fight larger fires with water spray 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

Following may be released: Carbonic anhydride (CO₂), Carbon monoxide (CO), Benzoic acid, Benzene, Biphenyl Phenyl benzoate. Under certain fire conditions, traces of other toxic gases cannot be excluded

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:

Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system

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

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2019

Page 4 of 11

Wood Restore Repair Putty Hardener

Keep unprotected persons away

Use respiratory protective device against the effects of fumes/dust/aerosol. Keep away from ignition sources

Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

Inform respective authorities in case of seepage into water course or sewage system

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Pick up mechanically. Do not allow to dry out. Ensure adequate ventilation

Dispose of contents / container in accordance with local regulations

Reference to other sections:

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment

See Section 13 for disposal information

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.

Keep away from heat and direct sunlight.

Protect against electrostatic charges

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

Store only in the original receptacle.

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.

Prevent from drying out. Protect from heat and direct sunlight.

Keep ignition sources away - Do not smoke. Substance/product is oxidizing when dry.

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
ACGIH	Benzoyl peroxide	94-36-0	8-Hour exposure limit: 5 mg/m ³
	Gypsum	13397-24-5	8-Hour exposure limit: 10 mg/m ³ (Inhalable fraction)
	Ethane-1,2-diol	107-21-1	8-hour Exposure Limit (TLV-TWA): 25 ppm (vapor fraction)
	Ethane-1,2-diol	107-21-1	15-minute STEL: 50 ppm (vapor fraction)
	Ethane-1,2-diol	107-21-1	15-minute STEL: 10 mg/m ³ (aerosol only, inhalable fraction)
NIOSH	Benzoyl peroxide	94-36-0	REL: 5 mg/m ³
	Benzoyl peroxide	94-36-0	Immediately dangerous to life or health (IDLH): 1500 mg/m ³

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2019

Page 5 of 11

Wood Restore Repair Putty Hardener

Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States (OSHA)	Gypsum	13397-24-5	REL: 10 mg/m ³
	Gypsum	13397-24-5	REL: 5 mg/m ³ (Respirable dust)
	Benzoyl peroxide	94-36-0	TWA: 5 mg/m ³
	Gypsum	13397-24-5	PEL: 15 mg/m ³ (Total dust)
	Gypsum	13397-24-5	PEL: 5 mg/m ³ (Respirable dust)
	Ethane-1,2-diol	107-21-1	Ceiling concentration: 50 ppm (125 mg/m ³)

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	Pasty, appearance different according to coloring
Odor	Characterisitic
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.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2019

Page 6 of 11

Wood Restore Repair Putty Hardener

Evaporation rate	Not determined or not available.
Flammability (solid, gas)	May cause fire
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	Not determined or not available.
Density	1.16 - 1.24 g/cm ³
Relative density	Not determined or not available.
Solubilities	Insoluble in water
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	SADT = 50 °C. The SADT (self-accelerating decomposition temperature) is an experimentally determined temperature at which the product, in its conventional packaging will decompose in a self accelerating reaction.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Product does not present an explosion hazard
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:

No decomposition if used and stored according to specifications.

Exothermic thermal decomposition.

Visible decomposition with spontaneous ignition on heating.

SADT = 50 °C SADT (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition at or below the SADT

Possibility of hazardous reactions:

Reacts with reducing agents, heavy metals, alkali, amines and strong acids.

Conditions to avoid:

None known.

Incompatible materials:

Reducing agents like amines, acids, alkali, compounds based on heavy metals (p.e. accelerators).

Hazardous decomposition products:

Benzoic acid, Benzene, Biphenyl Phenyl benzoate

SECTION 11: Toxicological information

Acute toxicity

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

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2019

Page 7 of 11

Wood Restore Repair Putty Hardener

Product data: No data available.

Substance data:

Name	Route	Result
Benzoyl peroxide	oral	LD50 Oral - Rat - 77100 mg/kg
Ethane-1,2-diol	oral	LD50 - Cat - 1,650 mg/kg

Skin corrosion/irritation

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

Product data:

No data available.

Substance data: No data available.

Serious eye damage/irritation

Assessment:

Causes serious eye irritation

Product data:

No data available.

Substance data:

Name	Result
Benzoyl peroxide	Causes eye irritation

Respiratory or skin sensitization

Assessment:

May cause an allergic skin reaction

Product data:

No data available.

Substance data:

Name	Result
Benzoyl peroxide	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.

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.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2019

Page 8 of 11

Wood Restore Repair Putty Hardener

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:**

Very toxic to aquatic life

Product data: No data available.

Substance data:

Name	Result
2-Ethylhexyl benzoate	LC50 - Rainbow Trout - > 0.66 mg/L (96 H)
	EC50 - Daphnia magna - > 0.125 mg/L - (48 H)
Ethane-1,2-diol	LC50 - Pimephales promelas - 72860 mg/L - (96 H)
	EC50 - Daphnia magna - > 13900 mg/L - (48 H)
	EC50 - Green Algae - 479 mg/L - 72 H
dibenzoyl peroxide	EC50 - Daphnia magna - 0.110 mg/L - (48 H)
	LC50 - Oncorhynchus mykiss - 0.0602 mg/L - (96 H)
	ErC50 - Green Algae - 0.0711 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
Ethane-1,2-diol	NOEC - Pimephales promelas - 2629 mg/L - (7 d)
	EC50 - Daphnia magna - 690 mg/L - (16 d)

Persistence and degradability

Product data: No data available.

Substance data:

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2019

Page 9 of 11

Wood Restore Repair Putty Hardener

Name	Result
Benzoyl peroxide	Readily biodegradable.
2-Ethylhexyl benzoate	The test substance is readily biodegradable under conditions tested. At the end of the 10 day window, more than 60% degradation was reached.
Ethane-1,2-diol	Readily biodegradable in water.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Ethane-1,2-diol	Bioaccumulation in organisms is not to be expected.

Mobility in soil

Product data: No data available.

Substance data:

Name	Result
Benzoyl peroxide	Is not considered mobile in soil and sediments.
Ethane-1,2-diol	Adsorption into soil is not expected.

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	3108
UN proper shipping name	Organic Peroxide Type E, Solid
UN transport hazard class(es)	5.2 
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	3108
UN proper shipping name	Organic Peroxide Type E, Solid
UN transport hazard class(es)	5.2  
Packing group	None
Environmental hazards	Marine Pollutant (Benzoyl Peroxide)
Special precautions for user	Warning: Organic peroxides.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2019

Page 10 of 11

Wood Restore Repair Putty Hardener

EmS number	F-J, S-R
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International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	3108
UN proper shipping name	Organic Peroxide Type E, Solid
UN transport hazard class(es)	5.2
Packing group	None
Environmental hazards	None
Special precautions for user	None



SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA): All ingredients are listed or exempted.

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:

94-36-0	Benzoyl peroxide	Not Listed
5444-75-7	2-Ethylhexyl benzoate	Not Listed
107-21-1	Ethane-1,2-diol	Listed
13397-24-5	Gypsum	Not Listed

CERCLA:

107-21-1	Ethane-1,2-diol	Listed	5,000
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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:

94-36-0	Benzoyl peroxide	Listed
5444-75-7	2-Ethylhexyl benzoate	Not Listed
107-21-1	Ethane-1,2-diol	Listed
13397-24-5	Gypsum	Listed

New Jersey Right to Know:

94-36-0	Benzoyl peroxide	Listed
5444-75-7	2-Ethylhexyl benzoate	Not Listed
107-21-1	Ethane-1,2-diol	Listed
13397-24-5	Gypsum	Listed

New York Right to Know:

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2019

Page 11 of 11


Wood Restore Repair Putty Hardener

94-36-0	Benzoyl peroxide	Listed
5444-75-7	2-Ethylhexyl benzoate	Not Listed
107-21-1	Ethane-1,2-diol	Listed
13397-24-5	Gypsum	Not Listed

Pennsylvania Right to Know:

94-36-0	Benzoyl peroxide	Listed
5444-75-7	2-Ethylhexyl benzoate	Not Listed
107-21-1	Ethane-1,2-diol	Listed
13397-24-5	Gypsum	Listed

California Proposition 65:

 **WARNING:** This product can expose you to Ethane-1,2-diol; which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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: 2-0-1

Initial preparation date: 05.21.2019

End of Safety Data Sheet