



SAFETY DATA SHEET

Issuing Date 08-June-2016

Revision Date 08-June-2016

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product SDS Name Silicone Sealant – Oxime - Blue

J-B Weld FG SKU Part Numbers Covered

32326, 32926

J-B Weld Product Names Covered

Ultimate Blue™ (all sizes)

J-B Weld Product Type

Silicone – Oxime Grade

Recommended use of the chemical and restrictions on use

Recommended Use Automotive Sealant & Gasket Maker

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name J-B WELD COMPANY,LLC

Supplier Address 1130 COMO ST
SULPHUR SPRINGS, TX 75482
USA

Emergency Telephone Numbers Transportation Emergencies: Chemtrec (24 hour transportation emergency response info):
800-424-9300 or 703-527-3887

Poison/Medical Emergencies: Poison Control Centers (24 hour emergency poison / medical response info): 800-222-1222

Supplier Email info@jbweld.com

Supplier Phone Number 903-885-7696



2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS classification in accordance with OSHA
(29 CFR 1910.1200)

Sensitization, skin (chapter 3.4), Cat. 1

Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 2

GHS label elements, including precautionary statements

Pictogram



Signal Word

Warning

Hazard statement(s)

H317

May cause an allergic skin reaction

H373

May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P272

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

P280

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

P302+P352

IF ON SKIN: Wash with plenty of water.

P314

Get medical advice/attention if you feel unwell.

P333+P313

If skin irritation or a rash occurs: Get medical advice/attention.

P363

Wash contaminated clothing before reuse.

P501

Dispose of contents/container to

Other hazards which do not result in classification None known

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances

Hazardous components

Calcium carbonate (Natural)

Concentration

$\geq 35 - \leq 50$ % (Weight)

Other names/synonyms

Agricultural limestone; limestone; Marble chips; Natural calcium carbonate

CAS no.

1317-65-3

2-Butanone, 2,2',2''-[O,O',O''-(ethenylsilyldiyl)trioxime]

Concentration

$\geq 0.1 - < 4$ % (Weight)

Other names/synonyms

Vinyl tris (methylethylketoxime)

CAS no.

2224-33-1

2-Butanone, 2,2',2''-[O,O',O''-(methylsilyldiyl)trioxime]

Concentration

$\geq 0.1 - < 3$ % (Weight)

Other names/synonyms

Methyl tris (methylethylketoxime)

CAS no.

22984-54-9

Silica

Concentration

$\geq 1 - < 10$ % (Weight)

Other names/synonyms

Siliceous earth, purified

CAS no.

7632-86-9

3-AMINOPROPYLTRIETHOXYSILANE

Concentration	>= 0.1 - < 1 % (Weight)
Other names/synonyms	(3-Aminopropyl)triethoxysilane; 1-Propanamine, 3-(triethoxysilyl)-; 3-Triethoxysilylpropylamine; APTES
EC no.	213-048-4
CAS no.	919-30-2
Index no.	612-108-00-0

1-Propanamine, 3-(trimethoxysilyl)-

Concentration	>= 0.1 - < 1 % (Weight)
CAS no.	13822-56-5

4. FIRST AID MEASURES

Description of necessary first-aid measures

General advice	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Personal protective equipment for first aid responders	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

Most important symptoms/effects, acute and delayed

May cause an allergic skin reaction.
May cause damage to organs through prolonged or repeated exposure if swallowed.

Indication of immediate medical attention and special treatment needed, if necessary

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray
Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO₂)



Specific hazards arising from the chemical

Exposure to combustion products may be a hazard to health.

Special protective actions for fire-fighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do so.

Evacuate area.

Further information

Hazardous combustion products:

Carbon oxides

Metal oxides

Silicon oxides

Formaldehyde

Nitrogen oxides (NO_x)

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions,
protective equipment and
emergency procedures**

Use personal protective equipment.

Follow safe handling advice and personal protective equipment recommendations.

**Environmental
precautions:**

Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so.

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up:

Soak up with inert absorbent material.

For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.

Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

Reference to other sections

Section 13 and 15 of this SDS provide information regarding certain local or national requirements.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS / PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.



Advice on safe handling :
Do not get on skin or clothing.
Do not swallow.
Avoid contact with eyes.
Handle in accordance with good industrial hygiene and safety practice.
Keep away from water.
Protect from moisture.
Take care to prevent spills, waste and minimize release to the environment.

**Conditions for safe storage,
including any incompatibilities**

Keep in properly labeled containers.
Store in accordance with the particular national regulations.

Materials to avoid : Do not store with the following product types: Strong oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

- 1. Calcium Carbonate (CAS: 1317-65-3)**
PEL (Inhalation): see PNOR (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov
- 2. Calcium Carbonate, Total dust (CAS: 1317-65-3)**
PEL (Inhalation): 15 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov
- 3. Calcium Carbonate, Total dust (CAS: 1317-65-3)**
PEL (Inhalation): 10 mg/m³ (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov
- 4. Calcium Carbonate, Total dust (CAS: 1317-65-3)**
REL (Inhalation): 10 mg/m³ (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov
- 5. Calcium Carbonate, Respirable fraction (CAS: 1317-65-3)**
PEL (Inhalation): 5 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov
- 6. Calcium Carbonate, Respirable fraction (CAS: 1317-65-3)**
PEL (Inhalation): 5 mg/m³ (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov
- 7. Calcium Carbonate, Respirable fraction (CAS: 1317-65-3)**
REL (Inhalation): 5 mg/m³ (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov
- 8. Limestone (CAS: 1317-65-3)**
PEL (Inhalation): see PNOR (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov
- 9. Limestone, Total dust (CAS: 1317-65-3)**
PEL (Inhalation): 15 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov
- 10. Limestone, Total dust (CAS: 1317-65-3)**
PEL (Inhalation): 10 mg/m³ (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov
- 11. Limestone, Total dust (CAS: 1317-65-3)**
REL (Inhalation): 10 mg/m³ (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov
- 12. Limestone, Respirable fraction (CAS: 1317-65-3)**
PEL (Inhalation): 5 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

13. Limestone, Respirable fraction (CAS: 1317-65-3)

PEL (Inhalation): 5 mg/m³ (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

14. Limestone, Respirable fraction (CAS: 1317-65-3)

REL (Inhalation): 5 mg/m³ (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

15. Marble (CAS: 1317-65-3)

PEL (Inhalation): See PNOR (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

16. Marble, Total dust (CAS: 1317-65-3)

PEL (Inhalation): 15 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

17. Marble, Total dust (CAS: 1317-65-3)

PEL (Inhalation): 10 mg/m³ (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

18. Marble, Total dust (CAS: 1317-65-3)

REL (Inhalation): 10 mg/m³ (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

19. Marble, Respirable fraction (CAS: 1317-65-3)

PEL (Inhalation): 5 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

20. Marble, Respirable fraction (CAS: 1317-65-3)

PEL (Inhalation): 5 mg/m³ (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

21. Marble, Respirable fraction (CAS: 1317-65-3)

REL (Inhalation): 5 mg/m³ (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

Appropriate engineering controls

Processing may form hazardous compounds (see section 10).
Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear the following personal protective equipment: Safety goggles

Skin protection

Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures: Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

Body protection

Impervious gloves. Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.



Respiratory protection

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Appearance/form	Paste
Odor	slight
Odor threshold	No data available
pH	Not available
Melting point/freezing point	No data available
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not classified as a flammability hazard
Upper/lower flammability limits	No data available
Upper/lower explosive limits	No data available
Vapor pressure	Not applicable
Vapor density	No data available
Relative density	1.41
Solubility(ies)	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

10. STABILITY AND REACTIVITY**Reactivity**

Not classified as a reactivity hazard.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Use at elevated temperatures may form highly hazardous compounds.
Can react with strong oxidizing agents.
Hazardous decomposition products will be formed upon contact with water or humid air.
Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid

Exposure to moisture.



Incompatible materials

Oxidizing agents

Water

Hazardous decomposition products

Contact with water or humid air: Ethyl methyl ketoxime

Thermal decomposition: Formaldehyde

11. TOXICOLOGICAL INFORMATION**Information on toxicological effects****Acute toxicity**

Not classified based on available information.

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

Ingredients:

Calcium carbonate:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 420

Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal toxicity

Amorphous fumed silica:

Acute oral toxicity : LD50 (Rat): > 20,000 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Remarks: Information taken from reference works and the literature.

Vinyltri (methylethylketoxime) silane:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Remarks: Based on test data

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity

Remarks: Based on test data

Methyltri(ethylmethylethylketoxime)silane:

Acute oral toxicity : LD50 (Rat): > 2,520 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Remarks: Based on test data

3-Aminopropyltriethoxysilane:

Acute oral toxicity : LD50 (Rat): 2,295 mg/kg

Remarks: Based on test data

Acute inhalation toxicity : LC50 (Rat): > 1.49 mg/l

Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: Based on test data
Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on test data

Skin corrosion/irritation	Not classified based on available information.
Serious eye damage/irritation	Not classified based on available information.
Respiratory or skin sensitization	Skin sensitization: May cause an allergic skin reaction. Respiratory sensitization: Not classified based on available information.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not classified based on available information.
Reproductive toxicity	Not classified based on available information.
STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	May cause damage to organs (Blood) through prolonged or repeated exposure if swallowed. Methyltri(ethylmethylketoxime)silane: Routes of exposure: Ingestion Target Organs: Blood Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw. Vinyltri (methylethylketoxime) silane: Routes of exposure: Ingestion Target Organs: Blood Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.
Aspiration hazard	Not classified based on available information.
Additional information	Information on likely routes of exposure Skin contact Ingestion Eye contact Product: Remarks: During use of the material, small amounts of methylethylketoxime (MEKO) will be released. Rodents exposed to chronic MEKO inhalation throughout their lifetimes showed significant increases in liver tumor rates.

12. ECOLOGICAL INFORMATION

Toxicity

Calcium carbonate:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates: EC50 (*Daphnia magna* (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (*Desmodesmus subspicatus* (green algae)): > 14 mg/l

Methyltri(ethylmethylketoxime)silane:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 120 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates: EC50 (*Daphnia magna* (Water flea)): > 120 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

Toxicity to algae : ErC50 (*Selenastrum capricornutum* (green algae)): 94 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Ecotoxicology Assessment

Acute aquatic toxicity: This product has no known ecotoxicological effects.

3-Aminopropyltriethoxysilane:

Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): 597 mg/l

Exposure time: 96 h

Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other aquatic invertebrates

: EC50 (*Daphnia* sp.): 81 mg/l

Exposure time: 48 h

Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae : ErC50 (*Selenastrum capricornutum* (green algae)): 8.8 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (*Selenastrum capricornutum* (green algae)): 3.1 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates

(Chronic toxicity): NOEC (*Daphnia* sp.): > 1 mg/l

Exposure time: 21 d

Toxicity to bacteria : EC50 (*Pseudomonas putida*): 67 mg/l

Exposure time: 16 h

Test Type: Growth inhibition

Method: DIN 38 412 Part 8

Persistence and degradability

Methyltri(ethylmethylketoxime)silane:
Biodegradability : Result: Not readily biodegradable.
Biodegradation: 14.5 %
Exposure time: 21 d
Method: OECD Test Guideline 302B
Remarks: Based on data from similar materials
3-Aminopropyltriethoxysilane:
Biodegradability : Result: Not readily biodegradable.
Biodegradation: 39 %
Method: OECD Test Guideline 301A
Stability in water : Degradation half life: 0.025 h (24.7 °C) pH: 7
Method: OECD Test Guideline 111

Vinyltri (methylethylketoxime) silane:
Biodegradability : Result: Not readily biodegradable.
Stability in water : Degradation half life: 1 s

Bioaccumulative potential

Methyltri(ethylmethylketoxime)silane:
Partition coefficient: noctanol/water: log Pow: 11.2

3-Aminopropyltriethoxysilane:
Partition coefficient: n- octanol/water : log Pow: -0.3

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Disposal of the product

Resource Conservation and Recovery Act (RCRA):
This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form. Waste from residues: Dispose of in accordance with local regulations.

Disposal of contaminated packaging

Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste treatment

No data

Sewage disposal

No data

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods



15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question

New Jersey Right To Know Components

Common name: CALCIUM CARBONATE

CAS number: 1317-65-3

Pennsylvania Right To Know Components

Chemical name: Limestone

CAS number: 1317-65-3

Pennsylvania Right To Know Components

Chemical name: Silica

CAS number: 7631-86-9

Chemical Safety Assessment

California Prop 65 WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm. Methanol 67-56-1

The ingredients of this product are reported in the following inventories:

KECI : All ingredients listed, exempt or notified.

REACH : All ingredients (pre-)registered or exempt.

TSCA : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

AICS : All ingredients listed or exempt.

IECSC : All ingredients listed or exempt.

PICCS : All ingredients listed or exempt.

DSL : All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

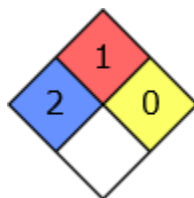
Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

HMIS Rating

Health hazard: 2
Flammability: 1
Physical hazard: 0
Personal Protection

NFPA Rating



16. OTHER INFORMATION

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits
for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)

ACGIH / TWA : 8-hour, time-weighted average

DCC OEL / TWA : Time weighted average

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour
workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded
at any time during a workday

OSHA Z-1 / TWA : 8-hour time weighted average

OSHA Z-3 / TWA : 8-hour time weighted average

US WEEL / TWA : 8-hr TWA

Sources of key data used to compile the Material Safety Data Sheet: Internal technical data, data from raw material SDSs, OECD
eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

End of Safety Data Sheet

