

#### Dear J-B Weld Customer,

Thank you for your interest in our products. This product is sold in a form where multiple discrete mixtures are present. The SDS for each part is presented below as shown in the table of contents. Please review the safety information for each part. If there are any questions or concerns, please contact our regulatory affairs department at regulatoryaffairs@jbweld.com.

The J-B Weld Team

Product name	: J-B Weld™	Original Steel	Reinforced	Syringe
--------------	-------------	----------------	------------	---------

Product code : 50165AUS

J-B Weld™ Steel Reinforced Syringe - Part A	2
J-B Weld™ Steel Reinforced Syringe - Part B	14

HPP Lunds 1/195 Jackson Road Sunnybank Hills, Qld , 4109 , Australia sales@hpplunds.com.au Tel: 1300-306-781

Website: www.jbweld.com.au

## SAFETY DATA SHEET





### **Section 1. Identification**

Product code : 50165A
Other means of : Resins.

identification

Product type : Liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

#### **Identified uses**

J-B Weld™ Syringe is the original cold-weld™ two-part epoxy system that provides strong, lasting repairs to metal and multiple surfaces. Mixed at a ratio of 1:1, it forms a permanent bond and can be shaped, tapped, filed, sanded and drilled after curing. At room temperature, J-B Weld™ sets in 4-6 hours to a dark grey color. Full cure is reached in 15-24 hours. J-B Weld™ has a tensile strength of 5020 PSI and sets to a hard bond overnight. It can withstand temperatures up to 550° when fully cured.

Uses advised against	Reason
See information supplied by the manufacturer.	

Supplier's details : HPP Lunds

1/195 Jackson Road

Sunnybank Hills, Qld, 4109, Australia

sales@hpplunds.com.au Tel: 1300-306-781

Website: www.jbweld.com.au

**Emergency telephone** 

number

: US: +1 (800) 535-5053 (INFOTRAC®)

Outside USA: +1 (352) 323-3500 (INFOTRAC® INTL)

## Section 2. Hazard(s) identification

Classification of the substance or mixture : ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

SKIN SENSITIZATION - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 88%

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 91%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 91%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 88%

**GHS label elements** 

Hazard pictograms



Signal word : WARNING

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.02 2/29

## Section 2. Hazard(s) identification

**Hazard statements** 

: Harmful if swallowed, in contact with skin or if inhaled.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eve irritation.

**Precautionary statements** 

General

: Read carefully and follow all instructions. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention** 

: Wear protective gloves and protective clothing. Wear eye or face protection. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response

: Collect spillage. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**Storage** 

: Not applicable.

**Disposal** 

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label

elements

: Not applicable.

Other hazards which do not : None known.

result in classification

## Section 3. Composition and ingredient information

Substance/mixture : Mixture Other means of : Resins. identification

Ingredient name	% (w/w)	Identifiers
7,4-bis(2,3 epoxypropoxy)butane	≥10 - ≤30	CAS: 2425-79-8 EC: 219-371-7
iron	≥1 - ≤5	CAS: 7439-89-6 EC: 231-096-4

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

Date of issue/Date of revision : 5/28/2025 : 2/25/2025 Version : 1.02 3/29 Date of previous issue

#### Section 4. First aid measures

Skin contact

tight clothing such as a collar, tie, belt or waistband.

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Ingestion

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Harmful if inhaled.

Skin contact : Harmful in contact with skin. Causes skin irritation. May cause an allergic skin

reaction.

Ingestion : Harmful if swallowed.

#### Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

> pain or irritation watering redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation redness

: No specific data. Ingestion

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

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

Date of issue/Date of revision : 5/28/2025 : 2/25/2025 Version : 1.02 4/29 Date of previous issue

### Section 5. Fire-fighting measures

## Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

## Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide carbon monoxide

halogenated compounds metal oxide/oxides

## Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

## Special protective equipment for fire-fighters

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

### Section 6. Accidental release measures

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

## For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

#### For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### **Environmental precautions**

: Noid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### Methods and materials for containment and cleaning up

#### **Small spill**

: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

## Section 7. Handling and storage

#### Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.02 5/29

## Section 7. Handling and storage

#### **Advice on general** occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls and personal protection

#### **Control parameters**

Occupational exposure limits

None.

#### **Biological exposure indices**

No exposure indices known.

#### Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### **Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

## Skin protection

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Date of issue/Date of revision : 5/28/2025 : 2/25/2025 Version : 1.02 6/29 Date of previous issue

J-B Weld™ Steel Reinforced Syringe - Part A

## Section 8. Exposure controls and personal protection

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance** 

Physical state : Liquid.
Color : Black.
Odor : Strong.
Odor threshold : Not available.
PH : Not available.
Melting point/freezing point : Not available.

Boiling point or initial

boiling point and boiling

range

Flash point : Closed cup: >93.3°C (>199.9°F)

: >100°C (>212°F)

Evaporation rate : Not available.Flammability : Not available.Lower and upper explosion : Not available.

limit/flammability limit

Vapor pressure

	Vapor Pressure at 20°C			V	apor pres	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
1,4-bis(2,3 epoxypropoxy)butane	<18.75159	<2.5	EU A.4			
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	0.62	0.083	EU A.4			

Relative vapor density : Not available.
Relative density : Not available.
Solubility in water : Not available.

Miscible with water : No.

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature :

Ingredient name	°C	°F	Method
iron	350	662	

**Decomposition temperature**: Not available.

Viscosity : Dynamic (room temperature): Not available.

Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.

**Particle characteristics** 

Median particle size : Not applicable.

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.02 7/29

J-B Weld™ Steel Reinforced Syringe - Part A

### Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

**Hazardous decomposition** 

products

iron

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

## Section 11. Toxicological information

#### Information on toxicological effects

**Acute toxicity** 

Product/ingredient name

7,4-bis(2,3 epoxypropoxy)butane Rat - Oral - LD50

1134 mg/kg

Result

<u>Toxic effects</u>: Eye - Other Behavioral - Somnolence (general

depressed activity) Other - Hair

Rabbit - Dermal - LD50

1130 mg/kg **Rat - Oral - LD50** 

750 mg/kg

<u>Toxic effects</u>: Blood - Changes in serum composition (e.g., TP, bilirubin, cholesterol) Enzyme inhibition, induction, or change in

blood or tissue levels - Transaminases

**Conclusion/Summary [Product]**: Not available.

**Skin corrosion/irritation** 

Product/ingredient name

1,4-bis(2,3 epoxypropoxy)butane

Result

Rabbit - Skin - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 10 mg

**Conclusion/Summary [Product]**: Not available.

Serious eye damage/eye irritation

Product/ingredient name

1,4-bis(2,3 epoxypropoxy)butane

Result

Rabbit - Eyes - Moderate irritant
Amount/concentration applied: 100 mg

**Conclusion/Summary [Product]** : Not available.

Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Not available.

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.02 8/29

#### Respiratory or skin sensitization

Not available.

Skin

**Conclusion/Summary [Product]**: Not available.

Respiratory

**Conclusion/Summary [Product]** : Not available.

**Germ cell mutagenicity** 

Not available.

**Conclusion/Summary [Product]** : Not available.

**Carcinogenicity** 

Not available.

**Conclusion/Summary [Product]** : Not available.

**Reproductive toxicity** 

Not available.

**Conclusion/Summary [Product]** : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

Information on the likely routes of exposure

Not available.

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : Harmful if inhaled.

Skin contact : Harmful in contact with skin. Causes skin irritation. May cause an allergic skin

reaction.

**Ingestion** : Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering redness

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.02 9/29

J-B Weld™ Steel Reinforced Syringe - Part A

## **Section 11. Toxicological information**

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

**Conclusion/Summary [Product]** : Not available.

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	(gases)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
IFB Weld™ Steel Reinforced Syringe - Part A 1,4-bis(2,3 epoxypropoxy)butane iron	1149.3	1265.6	N/A	12.3	N/A
	1134	1130	N/A	11	N/A
	750	N/A	N/A	N/A	N/A

## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name Result

7,4-bis(2,3 epoxypropoxy)butane Acute - LC50

Fish - Danio rerio 19.8 mg/l [96 hours]

iron Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - Crangon

crangon

33000 to 100000 µg/l [48 hours]

Effect: Mortality

Acute - EC50 - Fresh water

Aquatic plants - Duckweed - Lemna minor

3700 µg/l [4 days]

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.02 10/29

Effect: Growth

**Chronic - NOEC - Marine water** 

Algae - Dinoflagellate - Glenodinium halli

100 mg/l [72 hours] Effect: Population

Acute - LC50 - Marine water

Fish - Mudskipper - Periophthalmus waltoni - Adult

6.48 µg/l [96 hours] Effect: Mortality

**Conclusion/Summary [Product]** : Not available.

#### Persistence and degradability

Not available.

**Conclusion/Summary [Product]**: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
7,4-bis(2,3 epoxypropoxy) butane	-	-	Not readily
, ,	·	·	

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
1,4-bis(2,3 epoxypropoxy) butane	-0.269	-	Low

#### **Mobility in soil**

Soil/Water partition coefficient

: Not available.

#### Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.02 11/29

## **Section 14. Transport information**

	ADG	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name		<b>~</b>	<b>~</b>	
Transport hazard class(es)				
Packing group				
Environmental hazards	<b>№</b> o.	₩o.	₩o.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

### Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

#### International regulations

**Chemical Weapon Convention List Schedules I, II & III Chemicals** 

Not listed.

#### **Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Eurasian Economic Union
 Russian Federation inventory: All components are listed or exempted.
 Japan inventory (CSCL): Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): All components are listed or exempted.

New Zealand : All components are listed or exempted.

Philippines : All components are listed or exempted.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.02 12/29

J-B Weld™ Steel Reinforced Syringe - Part A

### Section 15. Regulatory information

Thailand : All components are listed or exempted.

Turkey : All components are listed or exempted.

United States : All components are listed or exempted.

Viet Nam : All components are listed or exempted.

### Section 16. Any other relevant information

#### **History**

Date of printing : 5/28/2025 Date of issue/Date of : 5/28/2025

revision

Date of previous issue : 2/25/2025 Version : 1.02

**Key to abbreviations** : ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method

References : Not available.

✓ Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.02 13/29

## SAFETY DATA SHEET





### **Section 1. Identification**

Product code : 50165B

Other means of identification

: Hardener for resins.

Product type : Liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

#### **Identified uses**

J-B Weld™ Syringe is the original cold-weld™ two-part epoxy system that provides strong, lasting repairs to metal and multiple surfaces. Mixed at a ratio of 1:1, it forms a permanent bond and can be shaped, tapped, filed, sanded and drilled after curing. At room temperature, J-B Weld™ sets in 4-6 hours to a dark grey color. Full cure is reached in 15-24 hours. J-B Weld™ has a tensile strength of 5020 PSI and sets to a hard bond overnight. It can withstand temperatures up to 550° when fully cured.

Uses advised against	Reason
See information supplied by the manufacturer.	

Supplier's details : HPP Lunds

1/195 Jackson Road

Sunnybank Hills, Qld, 4109, Australia

sales@hpplunds.com.au Tel: 1300-306-781

Website: www.jbweld.com.au

**Emergency telephone** 

number

: US: +1 (800) 535-5053 (INFOTRAC®)

Outside USA: +1 (352) 323-3500 (INFOTRAC® INTL)

## Section 2. Hazard(s) identification

Classification of the substance or mixture CUTE TOXICITY (oral) - Category 4

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

**RESPIRATORY SENSITIZATION - Category 1** 

SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

AQUATIC HAZARD (LONG-TERM) - Category 4

**GHS label elements** 

**Hazard pictograms** 





Signal word : DANGER

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.01 14/29

## Section 2. Hazard(s) identification

#### **Hazard statements**

: Harmful if swallowed.

Causes skin and eye irritation. May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

May cause long lasting harmful effects to aquatic life.

#### **Precautionary statements**

**General** 

: Read carefully and follow all instructions. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention** 

: Obtain special instructions before use. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Wear respiratory protection. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response

F exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**Storage** 

**Disposal** 

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label

elements

: Not applicable.

Other hazards which do not : None known.

result in classification

## Section 3. Composition and ingredient information

Substance/mixture

: Mixture

Other means of identification

Hardener for resins.

Ingredient name	% (w/w)	Identifiers
Formaldehyde, polymer with benzenamine, hydrogenated	≥10 - ≤30	CAS: 135108-88-2
4-nonylphenol, branched	≥10 - ≤30	CAS: 84852-15-3 EC: 284-325-5
3-aminomethyl-3,5,5-trimethylcyclohexylamine	≥10 - ≤30	CAS: 2855-13-2 EC: 220-666-8
4-tert-butylphenol	≥5 - ≤10	CAS: 98-54-4 EC: 202-679-0
3,6,9-triazaundecamethylenediamine	≥1 - ≤5	CAS: 112-57-2 EC: 203-986-2
iron	≥1 - ≤5	CAS: 7439-89-6 EC: 231-096-4
titanium dioxide	≥1 - ≤5	CAS: 13463-67-7 EC: 236-675-5

Date of issue/Date of revision : 5/28/2025 : 2/25/2025 Version : 1.01 15/29 Date of previous issue

J-B Weld™ Steel Reinforced Syringe - Part B

## Section 3. Composition and ingredient information

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First aid measures

#### Description of necessary first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance

for 48 hours. In the event of any complaints or symptoms, avoid further exposure.

Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before

Wash with plenty of soap and water. Remove contaminated clothing and shoes.

reuse. Clean shoes thoroughly before reuse.

Wash out mouth with water. Remove dentures if any. If material has been Ingestion

> swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Skin contact

**Eve contact** : Causes eye irritation.

: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation

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

Ingestion : Harmful if swallowed.

Over-exposure signs/symptoms

Adverse symptoms may include the following: **Eye contact** 

pain or irritation watering redness

Inhalation Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

reduced fetal weight increase in fetal deaths skeletal malformations

Date of issue/Date of revision : 5/28/2025 : 2/25/2025 Version : 1.01 16/29 Date of previous issue

J-B Weld™ Steel Reinforced Syringe - Part B

#### Section 4. First aid measures

: Adverse symptoms may include the following: Skin contact

> irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

: Adverse symptoms may include the following: Ingestion

reduced fetal weight increase in fetal deaths skeletal malformations

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

No specific treatment. **Specific treatments** 

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate

mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media

**Unsuitable extinguishing** 

media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. This material may cause long lasting harmful effects to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without

suitable training.

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

### Section 6. Accidental release measures

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Date of issue/Date of revision : 5/28/2025 : 2/25/2025 Version : 1.01 17/29 Date of previous issue

#### Section 6. Accidental release measures

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### **Environmental precautions**

Evoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### Methods and materials for containment and cleaning up

#### **Small spill**

: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

## Section 7. Handling and storage

#### Precautions for safe handling

#### **Protective measures**

Fut on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls and personal protection

#### **Control parameters**

Occupational exposure limits

None.

#### **Biological exposure indices**

No exposure indices known.

Date of issue/Date of revision : 5/28/2025 : 2/25/2025 Version : 1.01 18/29 Date of previous issue

## Section 8. Exposure controls and personal protection

## Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

## **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

■ Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Respiratory protection**

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

Physical state : Liquid.

Color : Bluish-grey.

Odor : Not available.

Odor threshold : Not available.

pH : Not available.

Melting point/freezing point : Not available.

Boiling point or initial : >100°C (>212°F)

boiling point and boiling range

Flash point :

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.01 19/29

# Section 9. Physical and chemical properties and safety characteristics

	Closed cup		Open cup		ıb	
Ingredient name	°C	°F	Method	°C	°F	Method
methanol	9.7	49.5	Abel-Pensky			
N-(3-(trimethoxysilyl)propyl) ethylenediamine	98	208.4				
benzyl alcohol	100.56	213				
3-aminomethyl- 3,5,5-trimethylcyclohexylamine				110	230	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	114	237.2				
4-tert-butylphenol				115	239	
4-nonylphenol, branched	154	309.2	ISO 2719			
Benzoic acid, 2-hydroxy-	157	314.6				
3,6,9-triazaundecamethylenediamine				163	325.4	
Formaldehyde, polymer with benzenamine, hydrogenated	>200	>392				

Evaporation rate : Not available.
Flammability : Not available.
Lower and upper explosion : Not available.
limit/flammability limit

Vapor pressure :

	Vapor Pressure at 20°C		V	apor press	ure at 50°C	
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
methanol	126.96329	16.9				
N,N,N',N'-tetramethyl-2,2'-oxybis (ethylamine)	0.36753	0.049				
2,4,6-tris(dimethylaminomethyl) phenol	0.056	0.0075	EU A.4			
benzyl alcohol	0.05	0.0067				
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	0.01178	0.0016	OECD 104			
Formaldehyde, polymer with benzenamine, hydrogenated	0.00041	0.000055				
4-tert-butylphenol				0.22	0.029	

Relative vapor density : Not available.

Relative density : 1 to 1.2

Solubility in water : Not available.

Miscible with water : No.

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.01 20/29

J-B Weld™ Steel Reinforced Syringe - Part B

## Section 9. Physical and chemical properties and safety characteristics

Ingredient name	°C	°F	Method
3,6,9-triazaundecamethylenediamine	321	609.8	
iron	350	662	
4-nonylphenol, branched	372	701.6	ASTM E 659
2,4,6-tris(dimethylaminomethyl)phenol	382	719.6	EU A.15
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	406	762.8	
benzyl alcohol	436	816.8	
methanol	455	851	DIN 51794
Benzoic acid, 2-hydroxy-	540	1004	

**Decomposition temperature**: Not available.

**Viscosity** 

Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.

**Particle characteristics** 

Median particle size : Not applicable.

## Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : No specific data.

**Incompatible materials** : No specific data.

**Hazardous decomposition** 

products

iron

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

#### Information on toxicological effects

**Acute toxicity** 

Product/ingredient name Result

4-nonylphenol, branched Rat - Oral - LD50

1300 mg/kg

Toxic effects: Liver - Other changes Blood - Hemorrhage Gross Metabolite Changes - Weight loss or decreased weight

gain

3,6,9-triazaundecamethylenediamine Rat - Oral - LD50

> 3990 mg/kg Rat - Oral - LD50

750 mg/kg

Toxic effects: Blood - Changes in serum composition (e.g., TP, bilirubin, cholesterol) Enzyme inhibition, induction, or change in

blood or tissue levels - Transaminases

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version: 1.01 21/29

**Conclusion/Summary [Product]** : Not available.

**Skin corrosion/irritation** 

Product/ingredient name Result

ronylphenol, branched Rabbit - Skin - Severe irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 500 mg

4-tert-butylphenol Rabbit - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 500 mg

Rabbit - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 4 hours <u>Amount/concentration applied</u>: 500 mg

3,6,9-triazaundecamethylenediamine Rabbit - Skin - Severe irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 5 mg **Rabbit - Skin - Severe irritant** Amount/concentration applied: 495 mg

**Conclusion/Summary [Product]**: Not available.

Serious eye damage/eye irritation

Product/ingredient name Result

#-nonylphenol, branched Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

4-tert-butylphenol Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 24 hours Amount/concentration applied: 50 ug

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 10 mg

Rabbit - Eyes - Moderate irritant

3,6,9-triazaundecamethylenediamine Rabbit - Eyes - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 100 mg **Rabbit - Eyes - Moderate irritant** <u>Amount/concentration applied</u>: 5 mg

**Conclusion/Summary [Product]**: Not available.

**Respiratory corrosion/irritation** 

Not available.

**Conclusion/Summary [Product]**: Not available.

**Respiratory or skin sensitization** 

Not available.

Skin

**Conclusion/Summary [Product]** : Not available.

Respiratory

**Conclusion/Summary [Product]** : Not available.

Germ cell mutagenicity

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.01 22/29

Not available.

**Conclusion/Summary [Product]** : Not available.

#### **Carcinogenicity**

Not available.

**Conclusion/Summary [Product]** : Not available.

#### Reproductive toxicity

Not available.

**Conclusion/Summary [Product]**: Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name

<mark>√B</mark> Weld™ Steel Reinforced Syringe - Part B SPECIFIC TARGET ORGAN TOXICITY (REPEATED

Result

EXPOSURE) - Category 2

Formaldehyde, polymer with benzenamine, SPECIFIC TARGET ORGAN TOXICITY (REPEATED

hydrogenated EXPOSURE) (kidneys) (oral) - Category 2

#### **Aspiration hazard**

Not available.

#### Information on the likely routes of exposure

Not available.

#### Potential acute health effects

**Eye contact** : Causes eye irritation.

**Inhalation** : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

**Ingestion**: Harmful if swallowed.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

reduced fetal weight increase in fetal deaths skeletal malformations

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.01 23/29

**Skin contact**: Kaverse symptoms may include the following:

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion**: Kaverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

effects

: Not available.

**Potential delayed effects** 

: Not available.

Long term exposure

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

**Conclusion/Summary [Product]** : Not available.

General: May cause damage to organs through prolonged or repeated exposure. Once

sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity : No known significant effects or critical hazards.Reproductive toxicity : Suspected of damaging fertility or the unborn child.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	( 3	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
J-B Weld™ Steel Reinforced Syringe - Part B Formaldehyde, polymer with benzenamine, hydrogenated	500	N/A	N/A	N/A	N/A
	100	N/A	N/A	N/A	N/A
4-nonylphenol, branched 3-aminomethyl-3,5,5-trimethylcyclohexylamine	1300	N/A	N/A	N/A	N/A
	500	1100	N/A	N/A	N/A
3,6,9-triazaundecamethylenediamine iron	500 500 750	1100 1100 N/A	N/A N/A N/A	N/A N/A N/A	0.05 N/A

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.01 24/29

#### **Toxicity**

#### **Product/ingredient name**

⁴-nonylphenol, branched

3-aminomethyl-

4-tert-butylphenol

3,5,5-trimethylcyclohexylamine

#### Result

#### Chronic - NOEC - Fresh water

Fish - Fathead minnow - Pimephales promelas - Embryo

Age: <24 hours 7.4 μg/l [33 days] Effect: Mortality

#### Acute - LC50 - Marine water

Fish - Winter flounder - Pleuronectes americanus - Larvae

Age: 2 days 17 μg/l [96 hours] Effect: Mortality

#### Acute - EC50 - Marine water

Algae - Diatom - Skeletonema costatum

0.027 mg/l [96 hours] Effect: Population

#### Chronic - EC10 - Marine water

Algae - Diatom - Skeletonema costatum

0.012 mg/l [96 hours] Effect: Population

#### Chronic - NOEC - Fresh water

Crustaceans - Scud - Gammarus fossarum - Adult

5 μg/l [21 days] Effect: Reproduction

Acute - EC50

OECD

Crustaceans - Water flea - Moina macrocopa

0.044 mg/l [48 hours] Effect: Intoxication

#### Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna

Age: <24 hours 17.4 mg/l [48 hours] Effect: Intoxication

#### Acute - LC50 - Fresh water

Fish - Fathead minnow - Pimephales promelas

Age: 31 to 35 days; Weight: 97 mg

5140 μg/l [96 hours] Effect: Mortality

#### Acute - EC50 - Fresh water

**OECD** 

Algae - Green algae - Scenedesmus quadricauda -

Exponential growth phase 11.08 mg/l [72 hours] Effect: Population

#### **Chronic - NOEC - Fresh water**

OFCD

Algae - Green algae - Scenedesmus quadricauda -

Exponential growth phase

1 mg/l [72 hours] Effect: Population

#### Chronic - NOEC - Fresh water

**OECD** 

Daphnia - Water flea - Daphnia magna

Age: <24 hours 0.45 mg/l [21 days] Effect: Reproduction

#### **Chronic - NOEC - Fresh water**

OECD

Fish - Chinese Rare Minnow - Gobiocypris rarus - Embryo

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.01 25/29

0.5 mg/l [28 days] Effect: Multiple

Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna

Age: 6 to 24 hours 3.9 mg/l [48 hours] Effect: Intoxication

Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - Crangon

crangon

33000 to 100000 µg/l [48 hours]

Effect: Mortality

Acute - EC50 - Fresh water

Aquatic plants - Duckweed - Lemna minor

3700 μg/l [4 days] Effect: Growth

**Chronic - NOEC - Marine water** 

Algae - Dinoflagellate - Glenodinium halli

100 mg/l [72 hours] Effect: Population

Acute - LC50 - Marine water

Fish - Mudskipper - Periophthalmus waltoni - Adult

6.48 µg/l [96 hours]
Effect: Mortality
Acute - LC50
Crustaceans
5.5 mg/l [48 hours]

titanium dioxide

iron

**Conclusion/Summary [Product]** : Not available.

#### Persistence and degradability

Not available.

**Conclusion/Summary [Product]**: Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Formaldehyde, polymer with	-	209 to 219	Low
benzenamine, hydrogenated			
4-nonylphenol, branched	5.4	740	High
3-aminomethyl-	0.99	-	Low
3,5,5-trimethylcyclohexylamine			
4-tert-butylphenol	3	44 to 48	Low

#### **Mobility in soil**

Soil/Water partition : Not available.

coefficient

#### Other adverse effects

No known significant effects or critical hazards.

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.01 26/29

## Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **Section 14. Transport information**

	ADG	ADR/RID	IMDG	IATA
UN number	Mot available.	<b>M</b> ot available.	Not available.	Not available.
UN proper shipping name	<b>M</b> ot available.	Not available.	Not available.	Not available.
Transport hazard class(es)	<b>M</b> ot available.	Not available.	Not available.	Not available.
Packing group				
Environmental hazards	₩o.	₩o.	<mark>M</mark> o.	₩o.

#### **Additional information**

IATA

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

## Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Date of issue/Date of revision : 5/28/2025 : 2/25/2025 Version: 1.01 27/29 Date of previous issue

## Section 15. Regulatory information

Not listed

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

**Eurasian Economic Union**: Russian Federation inventory: All components are listed or exempted.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): All components are listed or exempted.

New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.

Republic of Korea : Not determined.

 Taiwan
 : All components are listed or exempted.

 Thailand
 : All components are listed or exempted.

 Turkey
 : MI components are listed or exempted.

 United States
 : All components are listed or exempted.

 Viet Nam
 : All components are listed or exempted.

## Section 16. Any other relevant information

**History** 

Date of printing : 5/28/2025 Date of issue/Date of : 5/28/2025

revision

Date of previous issue : 2/25/2025 Version : 1.01

**Key to abbreviations** : ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
CUTE TOXICITY (oral) - Category 4	Expert judgment
SKIN CORROSION/IRRITATION - Category 2	Expert judgment
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B	Expert judgment
RESPIRATORY SENSITIZATION - Category 1	Expert judgment
SKIN SENSITIZATION - Category 1B	Expert judgment
CARCINOGENICITY - Category 2	Expert judgment
TOXIC TO REPRODUCTION - Category 2	Expert judgment
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Expert judgment
AQUATIC HAZARD (LONG-TERM) - Category 4	Expert judgment

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.01 28/29

J-B Weld™ Steel Reinforced Syringe - Part B

## Section 16. Any other relevant information

References : Not available

▼ Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue/Date of revision : 5/28/2025 Date of previous issue : 2/25/2025 Version : 1.01 29/29