SAFETY DATA SHEET

Issuing Date 31-May 2016 **Revision Date** 31-May 2016 **Revision Number** 1

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

Product identifier

Product SDS Name **Plastic Bonder (Black) - Syringe – Parts B**

J-B Weld FG SKU Part Numbers Covered

50139

J-B Weld Product Names Covered

J-B Plastic Bonder™ Syringe

J-B Weld Product Type

Polyurethane

Recommended use of the chemical and restrictions on use

Recommended Use	Plastic Bonding & General Purpose Adhesive
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

GHS Classification

Reproductive toxicity : Category 2

GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard Statements : Suspected of damaging fertility or the unborn child.

Precautionary Statements : **Prevention:**

Obtain special instructions before use.

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

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

Response:

IF exposed or concerned: Get medical advice/attention.

Storage:

Store locked up.

Disposal:

Dispose of contents/container to an approved waste disposal plant.

Other hazards : None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture : Mixture

Chemical nature : Defatter

Chemical name	CAS-No.	Classification	Concentration (%)
TALC	14807-96-6	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012)	25.002
PIPERAZINE	110-85-0	Flam. Sol. 1; H228 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1B; H334 Skin Sens. 1B; H317 Repr. 2; H361	0.767

4. FIRST AID MEASURES

General advice

Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

If inhaled

If unconscious place in recovery position and seek medical advice. If symptom persists, call a physician.

In case of skin contact

First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

In case of eye contact

Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.

If swallowed

Obtain medical attention. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

No symptoms known or expected. Suspected of damaging fertility or the unborn child.

Notes to physician

No hazards which require special first aid measures.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray. Foam. Carbon dioxide (CO2), Dry chemical.

Unsuitable extinguishing media

High volume water jet

Specific hazards during firefighting

Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products

Toxic fumes, Aldehydes, Ketones, carbon dioxide and carbon monoxide, halogenated hydrocarbons, nitrogen oxides (NOx)

Specific extinguishing methods

Product is compatible with standard fire-fighting agents.

Further information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

Other information

Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

Advice on safe handling

Do not breathe vapours/dust. Do not smoke. Container hazardous when empty. Avoid exposure – obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations/working materials must comply with the technological safety standards.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissable concentration	Basis
TALC	14807-96-6	TWA	2 mg/m3 Respirable fraction	ACGIH
				ACGIH
				ACGIHLIS_P
		REL	2 mg/m3 Respirable.	NIOSH/GUIDE
				NIOSH/GUIDE
				Z3
				Z3
		TWA		Z3
		TWA	0.1 mg/m3 Respirable.	Z3
		TWA	0.3 mg/m3 Total dust.	Z3
CARBON BLACK	133-86-4	REL	0.1 mg/m3	NIOSH/GUIDE
		REL	3.5 mg/m3	NIOSH/GUIDE
		PEL	3.5 mg/m3	OSHA_TRANS

		TWA	3 mg/m3 Inhalable fraction.	ACGIH
PIPERAZINE	110-85-0	TWA	0.03 ppm Inhalable fraction and vapor (as piperazine)	ACGIH
		TWA	0.03 ppm Inhalable fraction and vapor (as piperazine	ACGIHLIS_P

Hazardous components without workplace control parameters

Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection: In the case of vapour formation use a respirator with an approved filter. A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible until certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

Hand protection

Polyvinyl chloride

Remarks

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye Protection

Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection

Wear as appropriate: Impervious clothing. Safety Shoes, Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures

Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:liquid
Color	:black
Odour	:no data available
Odour threshold	:no data available
pH	:no data available
Flash point	:>200.1°F/>93.4°C
Evaporation rate	:no data available
Flammability (solid, gas)	:no data available
Upper explosion limit	:no data available
Lower explosion limit	:no data available
Vapour pressure	:3 hPa (25°C) Calculated Vapor Pressure
Relative vapour density	:no data available
Relative density	:1.26 (25°C)
Density	:ca. 1.26 g/cm^3 (20°C)
Solubility(ies)	
Water solubility	:no data available
Solubility in other solvents	:no data available
Partition coefficient: n-octano/water	:no data available
Thermal decomposition	:no data available
Viscosity	
Viscosity, dynamic	23,000 mPa.s
Viscosity, kinematic	:no data available
Oxidizing properties	:no data available

10. STABILITY AND REACTIVITY

Reactivity
No decomposition if stored and applied as directed.

Chemical Stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
Product will not undergo hazardous polymerization.

Conditions to avoid
Heat. Exposure to moisture.

Incompatible materials
Alkalis, Isocyanates,Oxidizers, Phosphorus Compounds, Strong acids, strong oxidizing agents

Hazardous decomposition products
No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:	Inhalation Skin Contact Eye Contact Ingestion
Acute toxicity	Not classified based on available information
Components:	
PIPERAZINE:	
Acute oral toxicity:	LD50 (Rat): 2,600 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity:	LC0 (Rat, male and female): 1.61 mg/l Exposure time: 8 h Test atmosphere: vapour
Skin corrosion/irritation:	Not classified based on available information.

Components:
TALC:
Result: Possibly irritating to skin

PIPERAZINE:
Result: Corrosive after 3 minutes to 1 hour exposure

Components:
TALC:
Result: Possibly irritating to eyes

PIPERAZINE:
Result: Corrosive

Respiratory or skin sensitization
Skin sensitization: Not classified based on available information.
Respiratory sensitization: Not classified based on available information.

Components:
PIPERAZINE:
Assessment: The product is a respiratory sensitizer, sub-category 1B
Assessment: The product is a skin sensitizer, sub-category 1B

Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not classified based on available information.
Reproductive toxicity	Suspected of damaging fertility or the unborn child.

Components:
PIPERAZINE:

Reproductive toxicity – Assessment	Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

STOT-single exposure	Not classified based on available information.
STOT – repeated exposure	Not classified based on available information.
Aspiration toxicity	Not classified based on available information.

Further information
Product:
Remarks: No data available.
Carcinogenicity:
IARC Group 2B: Possibly carcinogenic to humans

TALC	14807-96-6
CARBON BLACK	1333-86-4

OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity	Not classified based on available information.
Chronic aquatic toxicity	Not classified based on available information.

Components:

PIPERAZINE:

Toxicity to fish	LC50 (Poecilia reticulate (guppy)):>1,800 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 (Water flea (Daphnia magna)): 21 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	EC50 (Pseudokirchneriella subcapitata (green algae)): >1,000 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC (Water flea (Daphnia magna)): 12.5 mg/l Exposure time: 21 d Method: OECD Test Guideline 211

Persistence and degradability

PIPERAZINE:

Biodegradability	Result: Readily biodegradable Biodegradation: 70% Exposure time: 28 d Method: OECD Test Guideline 301F

No data available

Bioaccumulative potential

PIPERAZINE:

Partition coefficient: n-octanol/water — Log Pow: -1.17

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological information: — No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice	Do not dispose of waste in sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of in accordance with all applicable local, state and federal regulations.
Contaminated packaging	Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.

U.S. DOT - ROAD

Not dangerous goods

U.S. DOT - RAIL

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TRANSPORT CANADA - ROAD

Not dangerous goods

TRANSPORT CANADA - RAIL

Not dangerous goods

TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

SARA 311/312 Hazards	Chronic Health Hazard
SARA 313 **Component(s) SARA 313**	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65	WARNING! This product contains a chemical known to the State of California to cause cancer.	
	CARBON BLACK	1333-86-4
	QUARTZ/SAND	14808-60-7
	FURAN	110-00-9
	PROPYLENE OXIDE	75-56-9
	ACETALDEHYDE	75-07-0

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

TSCA	On TSCA Inventory
DSL	All components of this product are on the Canadian DSL
ENCS	Not in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory.
PICCS	Not in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory.

Inventories

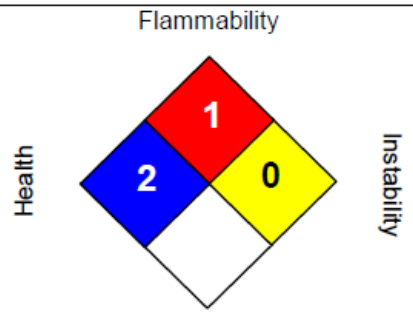
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

16. OTHER INFORMATION

Further Information

Revision Date: 02/11/2016

NFPA:	**HMIS III:**



HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

Full text of H-Statements

H228	Flammable solid.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H361	Suspected of damaging fertility or the unborn child.

Sources of key data used to compile the Safety Data Sheet
J-B Weld Company internal data including own and sponsored test reports.
The UNECE administers regional agreements implementing harmonized classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by J-B Weld Company.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:
ACGIH: American Conference of Industrial Hygienists
BEI: Biological Exposure Index
CAS: Chemical Abstracts Service (Division of the American Chemical Society).
CMR: Carcinogenic, Mutagenic or Toxic for Reproduction
FG: Food grade
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
H-Statement: Hazard Statement
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the “International Air Transport Association” (IATA).

ICAO: International Civil Aviation Organization
ICAO-TI (ICAO): Technical Instructions by the “International Civil Aviation Organization”
IMDG: International Maritime Code for Dangerous Goods
ISO: International Organization for Standardization
logPow: octanol-water partition coefficient
LCxx: Lethal Concentration, for xx percent of test population
LDxx: Lethal Dose, for xx percent of test population
ICxx: Inhibitory Concentration for xx of a substance
Ecxx: Effective Concentration of xx
N.O.S.: Not Otherwise Specified
OECD: Organization for Economic Co-operation and Development

OEL: Occupational Exposure Limit
P-Statement: Precautionary Statement
PBT: Persistent, Bioaccumulative and Toxic
PPE: Personal Protective Equipment
STEL: Short-term exposure limit
STOT: Specific Target Organ Toxicity
TLV: Threshold Limit Value
TWA: Time-weighted average
vPvB: Very persistent and Very Bioaccumulative
WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act
DOT: Department of Transportation
FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act
HMIRC: Hazardous Materials Information Review Commission
HMIS: Hazardous Materials Identification System
NFPA: National Fire Protection Association
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
PMRA: Health Canada Pest Management Regulatory Agency
RTK: Right to Know
WHMIS: Workplace Hazardous Materials Information System