

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 03.27.2019

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Metallic Repair Paste

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name: Metallic Repair Paste

Product code: 37901



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

Relevant identified uses: Professional & Industrial use; Muffler mender, Exhaust system repair cement.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

1.3 Details of the manufacturer/supplier of the safety data sheet

Manufacturer:

North America

JB Weld Company, LLC
400 CMH Road
Sulphur Springs, TX 75482
903-885-7696
info@jbweld.com

Supplier:

European Union

JRP Distribution Ltd.
Unit 3 New Wharf Brighton Road
Shoreham by Sea, BN43 6RN

1.4 Emergency telephone number:

United Kingdom

CHEMTREC

1-703-527-3887

+(44)-870-8200418 (London)

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No. 1272/2008 (CLP):

Skin irritation, category 2

Serious eye damage, category 1

Hazard-determining components of labeling:

Silicic acid, sodium salt

2.2 Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements:

P264 Wash hands thoroughly after handling.

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

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

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

P362+P364 Take off contaminated clothing and wash it before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention

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

P310 Immediately call a POISON CENTER or doctor/physician.

P501 Dispose of contents/container in accordance with local regulations.

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2.3 Other hazards: None known

SECTION 3: Composition/information on ingredients

3.1 Substance: Not applicable.

3.2 Mixture:

Identification	Name	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Weight %
CAS number: 7439-89-6 EC number: 231-096-4	Iron	Not classified	50-75
CAS number: 1344-09-8 EC number: 215-687-4	Silicic acid, sodium salt	Acute Tox. 4; H302 Skin Irrit. 2 ; H315 Eye Dam. 1; H318	5-10
CAS number: 14808-60-7 EC number: 238-878-4	Silica, crystalline quartz	Stot RE 1; H372 Carc. 1A; H350	<0.9
CAS number: 14464-46-1 EC number: 238-455-4	Cristobalite	Stot RE 1; H372	<0.9

Additional information:

Silica, crystalline quartz (CAS # 14808-60-7) is classified as a carcinogen in its respirable form. Since the Silica in this product is not respirable, the product itself is not classified as a carcinogen in the form presented.

Full Text of H and EUH statements: See section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

Not determined or not available.

Following inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

Following skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Take off all contaminated clothing

Gently blot or brush away excess product

Wash with plenty of lukewarm, gently flowing water

Get medical advice if skin irritation occurs or you feel unwell

Following eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

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

Remove contact lenses, if present and easy to do so

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Continue rinsing for 15-20 minutes
Get medical advice if eye irritation persists
Avoid direct contact and wear chemical protective gloves, if necessary
Continue rinsing until medical aid is available
Immediately call a POISON CONTROL CENTER or seek medical attention

Following ingestion:

Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists

4.2 Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Causes skin and eye irritation

Delayed symptoms and effects:

May cause respiratory irritation and other breathing problems.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment:

Not determined or not available.

Notes for the doctor:

Not determined or not available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.
Suitable agents include water and other non-combustible material.

Unsuitable extinguishing media:

Not determined or not applicable.

5.2 Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.
Carbon monoxide and carbon dioxide may form upon combustion.
Heating causes a rise in pressure, risk of bursting and combustion.

5.3 Advice for firefighters

Personal protection equipment:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

Special precautions:

Collect contaminated firefighting water separately. Do not allow firefighting water to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.
Ensure air handling systems are operational.
Wear protective eye wear, gloves and clothing.

6.2 Environmental precautions:

Should not be released into the environment.
Prevent from reaching drains, sewer or waterway.

6.3 Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing.
Take-up the spilled material mechanically.
Dispose of contents / container in accordance with local regulations.

6.4 Reference to other sections:

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Not determined or not applicable.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing dust.

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

7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Keep container dry.

Store in a cool, well-ventilated area.

7.3 Specific end use(s):

Not determined or not applicable.

SECTION 8: Exposure controls/personal protection



8.1 Control parameters

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Czech Republic	Iron	7439-89-6	8-hour TWA: 10 mg/m ³
	Silica, crystalline quartz	14808-60-7	8-hour TWA: 0.1 mg/m ³ (quartz, dust, respirable fraction)
Slovakia	Iron	7439-89-6	8-hour TWA: 6 mg/m ³
	Silica, crystalline quartz	14808-60-7	8-hour TWA (NPEL): 0.1 mg/m ³ (silica)
	Silica, crystalline quartz	14808-60-7	8-hour TWA: 0.1 mg/m ³ (silicon dioxide, crystalline, respirable fraction)
Bulgaria	Iron	7439-89-6	TWA: 6 mg/m ³
	Silica, crystalline quartz	14808-60-7	TWA: 0.07 mg/m ³ (free silicon dioxide, crystalline and quartz glass, respirable fraction)
Denmark	Cristobalite	14464-46-1	TWA: 0.15 mg/m ³ (Total dust)
	Cristobalite	14464-46-1	TWA: 0.05 mg/m ³ (Respirable dust)
	Silica, crystalline quartz	14808-60-7	TWA: 0.3 mg/m ³ (total)
	Silica, crystalline quartz	14808-60-7	TWA: 0.1 mg/m ³ (respirable)
Spain	Cristobalite	14464-46-1	8-hour daily exposure limit: 0.05 mg/m ³ (Respirable fraction)
	Silica, crystalline quartz	14808-60-7	8-hour daily exposure limit (VLA_ED): 0.05 mg/m ³
Sweden	Cristobalite	14464-46-1	Level Limit Value (NGV): 0.05 mg/m ³

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Silica, crystalline quartz	14808-60-7	Level Limit Value (NGV): 0.1 mg/m ³ (quartz, respirable)
Croatia	Silica, crystalline quartz	14808-60-7	Maximum (8 hr) allowable concentration: 0.1 mg/m ³ (crystalline SiO ₂ [quartz])
Estonia	Silica, crystalline quartz	14808-60-7	8-hour TWA: 0.1 mg/m ³ (quartz, fine dust)
Hungary	Silica, crystalline quartz	14808-60-7	8-hour TWA (ÁK Value): 0.15 mg/m ³ (quartz, respirable)
Lithuania	Silica, crystalline quartz	14808-60-7	8-hour TWA: 0.1 mg/m ³ [quartz (silicon dioxide form), respirable fraction]
Poland	Silica, crystalline quartz	14808-60-7	8-hour TWA (NDS): 2 mg/m ³ (dusts containing more than 50% free crystalline silica, inhalable fraction)
	Silica, crystalline quartz	14808-60-7	8-hour TWA (NDS): 0.3 mg/m ³ (dusts containing more than 50% free crystalline silica, respirable fraction)
	Silica, crystalline quartz	14808-60-7	8-hour TWA (NDS): 4 mg/m ³ (dusts containing from 2% to 50% free crystalline silica, inhalable fraction)
	Silica, crystalline quartz	14808-60-7	8-hour TWA (NDS): 1 mg/m ³ (dusts containing from 2% to 50% free crystalline silica, respirable fraction)
Romania	Silica, crystalline quartz	14808-60-7	8-hour TWA: 0.1 mg/m ³ (quartz, respirable fraction)
	Silica, crystalline quartz	14808-60-7	8-hour TWA: 0.1 mg/m ³ (quartz, dust, respirable fraction)
Slovenia	Silica, crystalline quartz	14808-60-7	8-hour TWA: 0.15 mg/m ³ (quartz, respirable fraction)
Austria	Silica, crystalline quartz	14808-60-7	MAK yearly average: 0.15 mg/m ³
Belgium	Silica, crystalline quartz	14808-60-7	8-hour TWA: 0.1 mg/m ³ [crystalline silica: quartz (respirable dust)]
Finland	Silica, crystalline quartz	14808-60-7	8-hour limit: 0.05 mg/m ³
France	Silica, crystalline quartz	14808-60-7	Time weighted average (VME) 0.1 mg/m
Italy	Silica, crystalline quartz	14808-60-7	8-hour TWA: 0.025 mg/m ³ (respirable fraction)
Netherlands	Silica, crystalline quartz	14808-60-7	Binding 8-hour TWA: 0.075 mg/m ³ (respirable dust)
Portugal	Silica, crystalline quartz	14808-60-7	8-hour exposure limit: 0.025 mg/m ³
United Kingdom	Silica, crystalline quartz	14808-60-7	TWA: 0.1 mg/m ³ (silica, respirable crystalline)

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL):

Not determined or not applicable.

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Predicted No Effect Concentration (PNEC):

Not determined or not applicable.

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls
Biological monitoring may also be appropriate for some substances

8.2 Exposure controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Suitable glove material: plastic and rubber.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

Environmental exposure controls:

Select controls based on a risk assessment of local conditions.

See section 6 for information on accidental release measures.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Grey solid
Odor	Not determined or not available.
Odor threshold	Not determined or not available.
pH	11.3
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	110 °C at 1,013 hPa (Initial boiling point)
Flash point (closed cup)	Not determined or not available.
Evaporation rate	<1 (ether = 1)
Flammability (solid, gas)	Non-combustible
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	32 hPa at 25 °C
Vapor density	0.6 (air = 1)
Density	Not determined or not available.
Relative density	0.6 (air = 1)

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Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not applicable
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not applicable
Kinematic viscosity	Not applicable
Explosive properties	Not explosive
Oxidizing properties	shall not be classified as oxidizing

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity:

Does not react under normal conditions of use and storage.

10.2 Chemical stability:

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions:

None under normal conditions of use and storage.

10.4 Conditions to avoid:

None known.

10.5 Incompatible materials:

None known.

10.6 Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

Product data: No data available.

Substance data:

Name	Route	Result
Silicic acid, sodium salt	dermal	LD50 Rabbit: 4640 mg/kg
	oral	LD50 Rat: 1960 mg/kg

Skin corrosion/irritation

Assessment:

Causes skin irritation

Product data:

No data available.

Substance data:

Name	Result
Silicic acid, sodium salt	Causes skin irritation.

Serious eye damage/irritation

Assessment:

Causes serious eye damage

Product data:

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No data available.

Substance data:

Name	Result
Silicic acid, sodium salt	Causes serious eye damage.

Respiratory or skin sensitization

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

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

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

Product data: No data available.

Substance data:

Name	Species	Result
Silica, crystalline quartz	Not applicable	Component may cause cancer.

International Agency for Research on Cancer (IARC):

Name	Classification
Silica, crystalline quartz	Group 1 - Carcinogenic to humans

National Toxicology Program (NTP):

Name	Classification
Cristobalite	Known to be human carcinogens
Silica, crystalline quartz	Known to be human carcinogens

Germ cell mutagenicity

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

Product data: No data available.

Substance data: No data available.

Reproductive Toxicity

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

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

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

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

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

Product data:

No data available.

Substance data:

Name	Result
Cristobalite	Component affects the lungs through repeated exposure.
Silica, crystalline quartz	Component affects the lungs through repeated exposure.

Aspiration toxicity

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

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

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

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity

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

Product data: No data available.

Substance data: No data available.

12.2 Persistence and degradability

Product data: No data available.

Substance data: No data available.

12.3 Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

12.4 Mobility in soil

Product data: No data available.

Substance data: No data available.

12.5 Results of PBT and vPvB assessment

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Relevant information:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

International Carriage of Dangerous Goods by Road/Rail (ADR/RID)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None

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Special precautions for user	None
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International Carriage of Dangerous Goods by Inland Waterways (ADN)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

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

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

European regulations

Inventory listing (EINECS):

7439-89-6	Iron	Listed
14464-46-1	Cristobalite	Listed
1344-09-8	Silicic acid, sodium salt	Listed
14808-60-7	Silica, crystalline quartz	Listed

REACH SVHC candidate list: None of the ingredients are listed.

REACH SVHC Authorizations: None of the ingredients are listed.

REACH Restriction: None of the ingredients are listed.

Water hazard class (WGK) (Product): Not determined.

Water hazard class (WGK) (Substance):

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Ingredient Name	CAS	Class
Iron	7439-89-6	Non-hazardous to water.
Silicic acid, sodium salt	1344-09-8	1
Cristobalite	14464-46-1	Non-hazardous to water.
Silica, crystalline quartz	14808-60-7	Non-hazardous to water.

Other regulations

Germany TA Luft: None of the ingredients are listed.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Indication of changes:

Not applicable.

Abbreviations and Acronyms: None

Classification procedure:

Classification according to Regulation (EC) No. 1272/2008 (CLP)	Method Used
Skin irritation, category 2	Calculation method
Serious eye damage, category 1	Calculation method

Summary of classification in section 3:

Acute Tox. 4; H302	Acute toxicity (oral), category 4
Skin Irrit. 2 ; H315	Skin irritation, category 2
Eye Dam. 1; H318	Serious eye damage, category 1
Stot RE 1; H372	Specific target organ toxicity - repeated exposure, category 1
Carc. 1A; H350	Carcinogenicity, category 1A

Summary of hazard statements in section 3:

H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H372	Causes damage to organs through prolonged or repeated exposure
H350	May cause cancer

Disclaimer:

This product has been classified in accordance with EC No. 1272/2008 (CLP) and EC No. 1907/2006 (REACH). The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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End of Safety Data Sheet