



SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Identifier: **Handi Jig**
Product Use: Dual purpose heat resistant material for insulating and positioning parts for welding
Item Code: 5200
Supplier Name: PowerWeld Inc.
Supplier Address: 2501 Beech Street
Valparaiso, IN 46383
Supplier Web Address: www.powerweldinc.com
Supplier Phone: 219-462-8700
1-800-826-9073
Emergency Phone: CHEMTREC (24-hour) 1-800-424-9300
Prepared By: PowerWeld Inc.
Preparation Date: 14 June 2016

Section 2: Hazard Identification

Classification: Not applicable
Label Elements: Not applicable
Other Hazards: Spatter and melting metal can cause burn injuries and start fires. Arc rays can injure eyes and burn skin. Electric shock can kill. Welding arc and sparks can ignite combustibles and flammable materials. Overexposure to welding fumes and gases can be hazardous.

Section 3: Composition/Information on Hazardous Ingredients

HAZARDOUS INGREDIENTS	CAS NUMBER	APPROXIMATE CONCENTRATION (%)
Cellulose	9004-34-6	1 - 11
Mica	12001-26-2	20 - 30
Sodium Chloride	7647-14-5	10 - 20
Water	7732-18-5	40 - 50
Sodium Alumino Sulphosilicate	57455-37-5	1 - 2
Alginate	9905-38-3	1 - 11

Section 4: First-aid Measures

Inhalation: Inhalation may be the most common cause of overexposure due to the welding fumes. Large amounts of welding fumes will cause irritation of the nose, eyes and skin. Move from the area that has any fumes to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and transport to nearest medical facility for additional treatment.

Ingestion: Not an expected route of exposure. Rinse mouth completely and drink a cup of water if conscious; obtain medical assistance when needed.

Eye Contact: If arc flash or burns occur, obtain medical assistance. Large exposure to welding fumes may cause irritation to the eyes. Immediately flush upper and lower eyelids with plenty of water. After initial flushing, remove any

contact lenses and continue flushing for at least 15 minutes. Rest eyes for 30 minutes. If redness, burning, blurred vision or swelling persists, visit nearest medical facility for additional treatment.

Skin Contact:

Large exposure to welding fumes may cause irritation to skin. If burns occur, flush with clean cool water for 15 minutes; obtain medical assistance when needed.

Symptoms:

Treat symptomatically; symptoms may be delayed. Show this SDS to the attending physician.

NOTE: In all severe cases, contact physician immediately. Local telephone operators can provide number of regional poison control centre.

Section 5: Fire-fighting Measures

Flammable:

Not flammable

Means of Extinction:

Use extinguishing method most appropriate for surrounding fire

Auto-ignition Temperature:

Not available

Hazardous Combustion Products:

Not available

Explosion Data Sensitivity to

Mechanical Impact:

Not available

Explosion Data Sensitivity to

Static Discharge:

Not available

Special Equipment:

See below

Precautions for Fire Fighters:

In the event of fire, wear self-contained breathing apparatus and full protective gear.

Section 6: Accidental Release Measures

Protective Equipment:

See Section 8

Emergency Procedures:

See Section 13

Leak or Spill Procedure:

Solid objects may be picked up and placed into a container. Liquids or pastes should be scooped up and placed into a container. Wear proper protective equipment while handling these materials. Do not discard as refuse.

Section 7: Handling and Storage

Handling Procedures and Equipment:

Avoid contact with eyes. Avoid breathing dust. Avoid prolonged or repeated contact with skin. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Avoid contact of spilled material and runoff with soil and surface waterways.

Storage Requirements:

Store in a cool, dry and low humid location. Keep away from heat and open flame.

Incompatibilities:

Acids and strong bases may cause chemical reactions.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

HAZARDOUS INGREDIENTS	CAS NUMBER	OSHA PEL (mg/m³)	ACGIH-TLV (mg/m³)
Cellulose	9004-34-6	-	10
Mica	12001-26-2	20	3
Sodium Chloride	7647-14-5	-	-
Water	7732-18-5	-	-

Sodium Alumino Sulphosilicate	57455-37-5	10	10
Alginate	9905-38-3	-	-

Engineering Controls:

Ensure proper ventilation and respiratory protection is used when welding, brazing or processing. Respiratory protection is recommended and information may be found regarding the OSHA STANDARDS (29 CRF 1910.134), as well as CSA Standards Z94.4, along with many other safety standards.

Personal Protective Equipment:

Use proper welding helmet or safety shield, as well as clothing and gloves, as required for job duties. Use an air purifying dust respirator when welding or brazing in a confined space, or when local exhaust or ventilation is not sufficient to keep exposure values within safe limits. Do not eat or drink while using these products and wash hands thoroughly after use.

Section 9: Physical and Chemical Properties

<i>Physical State:</i>	Solid
<i>Odor and Appearance:</i>	Odorless color-free object
<i>Odor Threshold (ppm):</i>	Not available
<i>pH:</i>	Not available
<i>Melting Point:</i>	Not available
<i>Freezing Point:</i>	Not available
<i>Boiling Point:</i>	Not available
<i>Flashpoint:</i>	Not available
<i>Upper Flammable Limit (% by volume):</i>	Not available
<i>Lower Flammable Limit (% by volume):</i>	Not available

Section 10: Stability and Reactivity

<i>Chemical Stability:</i>	Stable under normal conditions
<i>Possible Hazardous Reactions:</i>	None known
<i>Conditions to Avoid:</i>	None known
<i>Materials to Avoid (Incompatibilities):</i>	None known
<i>Conditions of Reactivity:</i>	None known
<i>Hazardous Decomposition By-Products:</i>	When this product is used in a welding process, hazardous decomposition products would include those from volatilization, reaction or oxidation of the material listed in Section 3 and those from the base metal and coating. Air contaminants around the welding area can be affected by the welding process and influence the composition and quality of fumes and gases produced.
<i>Hazardous Polymerization:</i>	Not applicable

Section 11: Toxicological Information

<i>Skin Contact:</i>	Arc rays can burn skin; skin cancer has been reported.
<i>Skin Absorption:</i>	Not applicable
<i>Eye Contact:</i>	Arc rays can injure eyes.
<i>Inhalation:</i>	Inhalation is the most likely route of exposure; refer to "Effects of Acute Exposure" and "Effects of Chronic Exposure" below.
<i>Ingestion:</i>	Unlikely due to form of product.
<i>Effects of Acute Exposure:</i>	Overexposure or inhalation of large amounts of welding fumes may cause symptoms such as metal fume fever, dizziness, nausea, dryness and irritation of your nose, throat or eyes as well as lung disease.

Effects of Chronic Exposure:

Overexposure or prolonged inhalation of large amounts of welding fumes symptoms may include damage to the central nervous system, respiratory system, skin and could affect organs such as pancreas and liver.

Sensitization to Product:

This product is not expected to cause skin sensitization.

Carcinogenicity:

Not available

Reproductive Effects:

Not available

Respiratory Sensitization:

Not available

Toxicological Data:

Cellulose

Oral, rat: >5000 mg/kg (LD50)

Dermal, rabbit: >2000 mg/kg (LD50)

Sodium Alumino Sulphosilicate

Oral, rat: >10 g/kg (LD50)

Oral, fish: >32000 mg/kg (LC50)

Alginate

Oral, rat: >5000 mg/kg (LD50)

Intravenous, rat: 1 g/kg (LD50)

Intravenous, rabbit: 100 mg/kg (LD50)

Intraperitoneal, cat: 250 mg/kg (LD50)

Section 12: Ecological Information

No data available

Section 13: Disposal Considerations

NOTE: Always dispose of waste in accordance with local, provincial and federal regulations.

Safe Handling:

Gloves can be worn while handling discarded or unwanted product.

Methods of Disposal:

Recycle when possible. Do not allow to enter drains, sewers or watercourses. Discard any unwanted product, residues, containers, or liners in a suitable disposal container in an environmentally acceptable manner, as required by relevant legislation.

Section 14: Transportation Information

This material is not considered as a dangerous good per transportation regulations.

Section 15: Regulatory Information

California Proposition 65:

This product contains or produces a chemical(s) known to the State of California to cause cancer and birth defects (or other reproductive harm).

Section 16: Other Information

Preparation Date:

14 June 2016

Date of Last Revision:

14 June 2016

This SDS format is in accordance with GHS. PowerWeld Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of PowerWeld. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made.