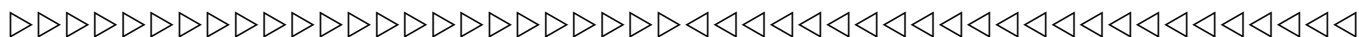


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**1. PRODUCT AND COMPANY IDENTIFICATION:**

**PRODUCT NAME:** Magic Metal: 8200

**MANUFACTURER:** Selectrode Industries, Inc.  
230 Broadway  
Huntington Station, NY 11746 U.S.A.  
Phone: 631-547-5470  
Fax: 631-547-5475  
E-mail: [info@selectrode.com](mailto:info@selectrode.com)

**EMERGENCY TELEPHONE NUMBER:** 631-547-5470

**Classification of the Substance/Mixture**

**CLP/GHS Classification (1272/2008):**  
Skin Sensitisation, Category 1

**EU Classification (67/548/EEC):**  
Irritant (Xi), R38

**Hazardous Classification per 29CFR 1910.1200 (Rev. July 1, 2012):**  
Skin Sensitisation, Category 1

**Labelling:**

**Symbols:**



**Signal Word:** Warning

**Hazard Statements:**

**H317** – May cause an allergic skin reaction.

**Precautionary Statements:**

**P261** – Avoid breathing dust/fume/gas/mist/vapours/spray.

**P272** – Contaminated work clothing should not be allowed out of the workplace.

**P280** – Wear protective gloves/eye protection/face protection.

**P302+P352** – IF ON SKIN: Wash with plenty of soap and water.

**P333+P313** – IF skin irritation or rash occurs: Get medical advice/attention.

**P363** – Wash contaminated clothing before reuse.

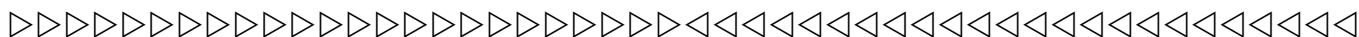
**P403+P233** – Store in a well-ventilated place. Keep container tightly closed.

**P501** – Dispose of contents/container in accordance with local/regional/national/international regulations.

**3. COMPOSITION / INFORMATION ON INGREDIENTS:**

Chemical Identity	CAS #	Range %	OSHA PEL (mg/m3)	ACGIH-TLV (mg/m3)	Carcinogenicity	EU Classification (67/548/EEC)	CLP/GHS Classification (1272/2008)	Hazardous Classification per 29CFR 1910.1200 (Rev. July, 2012)
Talc	14807-96-6	30-60	2	2	No	Xn R20 Xi R37	(H332) Acute Tox. 4 (H335) STOT SE 3	(H332) Acute Tox. 4 (H335) STOT SE 3
Glass, Oxide, Chemicals	65997-17-3	10-30	15	5	No	Xi)	(H315) Skin	(H315) Skin

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						R36/37/38 Carc. Cat. 3 R40	Irrit.. 2 (H319) Eye Irrit.. 2A (H335) STOT SE 3 (H351) Carc. 2 	Irrit.. 2 (H319) Eye Irrit.. 2A (H335) STOT SE 3 (H351) Carc. 2 
Nepheline Syenite	37244-96-5	1-5	5	N/est	No	Not Dangerous	Not Hazardous	Not Hazardous
Glycidyl ethers of bisphenol A resins	25068-38-6	10-30	N/est	N/est	No	(Xi) R36/38 (Xi) R43  (N),R51/53	(H315) Skin Irrit.. 2 (H319) Eye Irrit.. 2A (H317) Skin Sens. 1 (H411) Aquatic C. 2	(H315) Skin Irrit.. 2 (H319) Eye Irrit.. 2A (H317) Skin Sens. 1 (H411) Aquatic C. 2
Ferrosilicon	8049-17-0	10-30	10	5	No	(T) R23 (F) R15	(H331) Acute Tox. 3 (H261) Water- react. 3	(H331) Acute Tox. 3 (H261) Water- react. 3
Silicon Dioxide	14808-60-7	0.1-1	.1	.1	Yes	(Xn) R48/20	(H373) STOT RE 2	(H373) STOT RE 2

**Important:** This section covers the materials of which the products manufactured. The fumes and gases produced during normal use of this product are covered in section 10. The term "Hazardous" in "Hazardous Material" should be interpreted as a term required and defined in OSHA Hazard Communication Standard 29CFR 1910-1200 and it does not necessarily imply the existence of hazard. The chemicals or compounds reportable by Section 313 of SARA are marked by the symbol #.

**4. FIRST AID MEASURES:**

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

**Skin:** 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. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Eye:** 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 if irritation occurs.

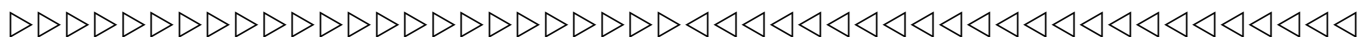
**Ingestion:** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as 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 adverse health effects persist or are severe. 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.

**5. FIRE-FIGHTING MEASURES:**

**Suitable Extinguishing Media:** Water spray, foam, CO2, dry chemical

**Unsuitable Extinguishing Media:** Not known

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**Specific Hazards Arising From Chemical:** No specific fire or explosion hazard. Decomposition products may include the following materials: Carbon Dioxide, Carbon Monoxide, Sulfur Oxides, Halogenated Compounds, Iron Oxides and Metal Oxide/Oxides

**Protective Equipment:** Fire fighters should wear complete protective clothing including self-contained breathing apparatus.



**6. ACCIDENTAL RELEASE MEASURES:**

**Personal Precautions:** Refer to section 8.

**Environment Precautions:** Refer to section 13.

**Cleaning Measures:** Small Spill: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Large Spill: Move containers from spill area. Approach release from upwind. Prevent entry into sewer, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labelled waste container. Dispose of via a licensed waste disposal contractor.

**7. HANDLING AND STORAGE:**

**Precautions for Safe Handling:** 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. 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. 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:** Do not store above the following temperature: 35°C (95°F). 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.

**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION:**

**Engineering Controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Exposure limits:** Use industrial hygiene equipment to ensure that exposure does not exceed applicable national exposure limits. The limits defined under section 3 can be used as guidance. Unless noted, all values are for 8 hour time weighted average.

**Biological limits:** No available data

**Engineering Controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**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 case, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Personal protection:**

**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

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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.

**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.

**Hand/Skin 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.

**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.

**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, gasses or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Safety Glasses with Side-Shields.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

**Appearance:** Solid

**Color:** Dark Grey - Black

**Odour:** Pungent. Sulfurous

**Odour Threshold:** Not Available

**pH Value:** Not Applicable

**Specific Gravity:** 2.247

**Melting Point/Melting Range:** Not Available

**Freezing Point:** Not Available

**Boiling Point/Boiling Range (° F @ 760 mmHg):** Not Available

**Flash point:** Closed cup: >93.3°C (>199.9°F) [Setaflash.] [Product does not sustain combustion.]

**Evaporation Rate:** >200 (butyl acetate = 1)

**Self-in flammability:** Not Available

**Explosion limits:** Not Available

**Vapour pressure:** Not Available

**Vapour density:** Not Available

**Density at 20°C:** Not Available

**Percent volatile by volume:** Not Available

**Bulk Density:** Not Available

**Relative density:** Not Available

**Solubility:** Easily soluble in the following materials: Methanol and Acetone.

**Reactivity in Water:** Not Available

**Partition coefficient:** Not Available

**Auto-ignition temperature:** Not Available

**Decomposition temperature:** Not Available

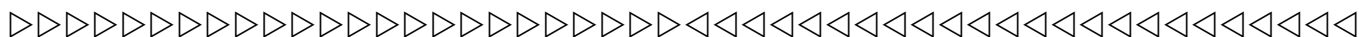
**Viscosity:** Not Applicable

**Other Information:** No available data.

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## 10. STABILITY AND REACTIVITY:

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**Chemical Stability:** This product is stable under normal conditions.

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

**11. TOXICOLOGICAL INFORMATION:**

**Acute Effects:** Overexposure to brazing and soldering fumes may result in symptoms like metal fume fever, dizziness, nausea, dryness or irritation of the nose, throat or eyes. Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and military nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion and increased susceptibility to tuberculosis. May cause sensitisation by skin contact

<b>LD/LC50 Values that are relevant for classification</b>		
<b>Glycidyl ethers of bisphenol A resins 25068-38-6</b>		
Oral	LD50	5000 mg/kg (Rat, Adult)
Skin	LC50	20000 mg/kg (Rabbit, Adult)

<b>LD/LC50 Values that are relevant for classification</b>		
<b>Nepheline Syenite 37244-96-5</b>		
Oral	LD50	365 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

<b>LD/LC50 Values that are relevant for classification</b>		
<b>Ferrosilicon 8049-17-0</b>		
Dermal	LD50	>20 g/kg (rabbit)

**Chronic Effects:** Overexposure to brazing and soldering fumes may affect pulmonary function. Prolonged inhalation of crystalline silica (Classified 1 by IARC and K by NTP) above safe exposure limits can cause cancer.

**12. ECOLOGICAL INFORMATION:**

**Toxicity:** No specific data.

**Persistence and Degradability:** No specific data.

**Bio accumulative Potential:**

<b>Glycidyl ethers of bisphenol A resins 25068-38-6</b>		
LogPow	BCF	Potential
2.64 to 3.78	31	Low

**Mobility in Soil:** No available data.

**Other Adverse Effects:** No known significant effects or critical hazards.

**13. DISPOSAL CONSIDERATIONS:**

**Product:** For product elimination, consult recycling companies or appropriate local authority.



