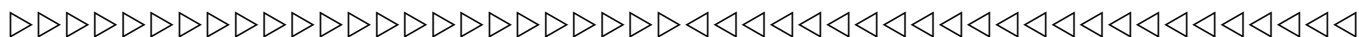


# Safety Data Sheet



## 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT NAME:** Magic Metal: 8100

**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 Irritation, Category 2**

**Eye Irritation, Category 2A**

**Skin Sensitisation, Category 1**

**EU Classification (67/548/EEC):**

**Irritant (Xi), R36/38, R43**

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

**Skin Irritation, Category 2**

**Eye Irritation, Category 2A**

**Skin Sensitisation, Category 1**

**Labelling:**

**Symbols:**



**Signal Word:** Warning

**Hazard Statements:**

**H315** – Causes skin irritation.

**H319** – Causes serious eye irritation.

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

**Precautionary Statements:**

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

**P264** – Wash skin and hair thoroughly after handling.

**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.

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

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

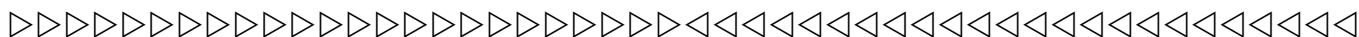
**P337+P313** – IF eye irritation persists: Get medical advice/attention.

**P362** – Take off contaminated clothing and wash before reuse.

**P403** – Store in a well-ventilated place.

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

**Safety  
Data  
Sheet**



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

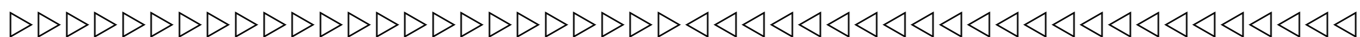
Chemical Identity	CAS #	Range %	OSHA PEL (mg/m3)	ACGIH-TLV (mg/m3)	Carcinogenicity	EU Classification (67/548/EEC)	CLP/GHS Classification (1272/2008)	Hazardous Classification per 29CFR 1910.1200 (Rev. July, 2012)
#Aluminum	7429-90-5	1-5	15	10	No	(F) R11 – R15	(H228) Flam. Sol. 2 (H261) Water-react. 3	(H228) Flam. Sol. 2 (H261) Water-react. 3
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	1-5	15	5	No	(Xi) R36/37/38 Carc. Cat. 3 (Xn) R40	(H315) Skin Irrit.. 2 (H319) Eye Irrit.. 2A (H335) STOT SE 3 (H351) Carc. 2	(H315) Skin Irrit.. 2 (H319) Eye Irrit.. 2A (H335) STOT SE 3 (H351) Carc. 2
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
Tri(dimethylaminomethyl) phenol	90-72-2	1-5	5 PPM	N/est	No	(Xn) R22 (Xi) R36/38	(H302) Acute Tox. 4 (H315) Skin Irrit.. 2 (H319) Eye Irrit.. 2A	(H302) Acute Tox. 4 (H315) Skin Irrit.. 2 (H319) Eye Irrit.. 2A
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. 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.

# Safety Data Sheet



**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.

**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, CO<sub>2</sub>, dry chemical

**Unsuitable Extinguishing Media:** Not known

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

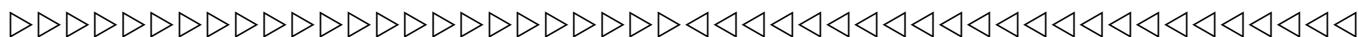
**Cleaning Measures:** Small Spill: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Large Spill: Move containers from 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.

# Safety Data Sheet



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 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: Chemical Splash Goggles..

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

**Appearance:** Solid

**Color:** Grey (Dark)

**Odour:** Pungent. Sulfurous. (Strong)

**Odour Threshold:** Not Available

**pH Value:** Not Applicable

**Specific Gravity:** 1.932

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

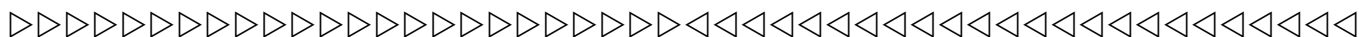
**Freezing Point:** Not Available

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

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

**Evaporation Rate:** Not Applicable

**Safety  
Data  
Sheet**



**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:** >220°C (>428°F)  
**Viscosity:** Kinematic (Room Temperature): Not Applicable  
                     Kinematic (40°C (104°F)): Not Applicable  
**Other Information:** No available data.

**10. STABILITY AND REACTIVITY:**

**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:**

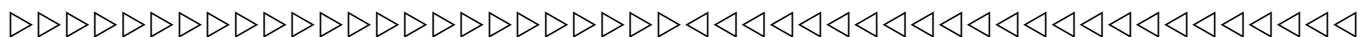
**Acute Effects:** Overexposure to brazing and soldering fumes may result in symptoms like metal fume fever, dizziness, nausea, dryness or irritation of the nose, throat or eyes. Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic 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>		
<b>Oral</b>	<b>LD50</b>	<b>5000 mg/kg (Rat, Adult)</b>
<b>Skin</b>	<b>LC50</b>	<b>20000 mg/kg (Rabbit, Adult)</b>

<b>LD/LC50 Values that are relevant for classification</b>		
<b>Tri(dimethylaminomethyl)phenol 90-72-2</b>		
<b>Oral</b>	<b>LD50</b>	<b>1653 mg/kg (rat)</b>
<b>Dermal</b>	<b>LD50</b>	<b>1280 mg/kg (rabbit)</b>

<b>LD/LC50 Values that are relevant for classification</b>		
<b>Aluminum 7429-90-5</b>		

**Safety  
Data  
Sheet**



Oral	LD50	>15900 mg/kg (rat)
Inhalation	LC50	>.888 mg/L/4 hr. (rat)
	LC50	.12 mg/l (96h) (rainbow trout)

**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:**

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

Tri(dimethylaminomethyl)phenol 90-72-2		
LogPow	BCF	Potential
0.77	-	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.

**Package:** May be disposed in approved landfills provided local regulations are observed.

**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.

**14. TRANSPORT INFORMATION:**

**UN-number:** Not applicable

**UN proper shipping name:** Not hazardous

**Transport hazard class:** Not hazardous

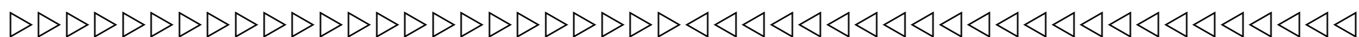
**Packing group:** Not applicable

**Environmental hazards:** Not applicable

**Special precautions for users: 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.

**15. REGULATORY INFORMATION:**

**Safety  
Data  
Sheet**



**Safety, health and environment regulations/legislation specific for the substance or mixture:** Read and understand the manufacturer's instructions, your employer's safety practices and the health and safety instructions on the label. Observe any federal and local regulations. Take precautions when welding and protect yourself and others.

**Warning:** Welding fumes and gases are hazardous to your health and may damage lungs and other organs. Use adequate ventilation. Electric shock can kill. Arc rays and sparks can injure eyes and burn skin. Wear correct hand, head, eye and body protection.

**Other Regulations:**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended


Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 16 December 2008 concerning the classification, labelling, and packaging of substances and mixtures, as amended

SDS Developed in accordance with EU Regulation (EC) No. 1907/2006 (REACH)

**Substances of Very High Concern:** None of the components are listed.

**Chemical safety assessment:** No

USA: Under the OSHA Hazard Communication Standard, this product is considered hazardous.

**CALIFORNIA PROPOSITION 65:**  **WARNING:** This product contains chemicals including [Talc, Silica], which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). (California Health & Safety Code § 25249.5 et seq.)

United States EPA Toxic Substance Control Act: All constituents of this product are on the TSCA inventory list or are excluded from listing.

**EPCRA/SARA Title III Toxic Chemicals**

The following metallic components are listed as SARA 313 "Toxic Chemicals" and potential subject to annual SARA reporting. See Section 3 for weight percentage.

Ingredient Name	Disclosure Threshold
Aluminum	15 mg/m3

**16. OTHER INFORMATION:**

The information in this document is believed to be correct as of the date issued. However, no warranty is expressed to be implied regarding the accuracy or completeness of this information. This information and product are furnished on the condition that the person receiving them shall make his own determinations as to the suitability of the product for his particular purpose and on the condition that he assumes the risk of his use thereof.

This Material Safety Data Sheet complies with the EC directives 91/155/EEC and 93/112/EEC, including modifications 2001/58/EC.

Complies with OSHA Communication Standard 29 CFR 1910.1200 and Superfund Amendments and Reauthorization Act (SARA) of 1986 Public Law 99-499

**Hazard Statements:**

**H228** – Flammable solid

**H261** – In contact with water releases flammable gas.

**H302** – Harmful if swallowed.

**H315** – Causes skin irritation.

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

**H319** – Causes serious eye irritation.

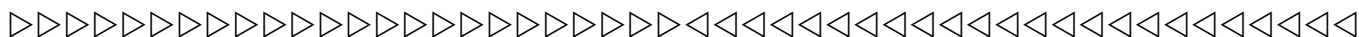
**H332** – Harmful if inhaled.

**H335** – May cause respiratory irritation.

**H351** – Suspected of causing lung cancer.

**H373** – May cause damage to organs through prolonged or repeated exposure.

**S**  
**D**  
**S**



**H411** – Toxic to aquatic life with long lasting effects.

**R-Phrases:**

**R11** – Highly flammable

**R15** – Contact with water liberates extremely flammable gases.

**R20** – Harmful by inhalation.

**R22** – Harmful if swallowed.

**R36/38** – Irritating to eyes and skin.

**R36/37/38** – Irritating to eyes, respiratory system and skin.

**R37** – Irritating to respiratory system

**R40** – Limited evidence of a carcinogenic effect.

**R43** – May cause sensitization by skin contact.

**R48/20** – Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**R51/53** – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-Phrases:**

**S2** – Keep out of reach of children.

**S24** – Avoid contact with skin.

**S26** – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**S28** – After contact with skin, wash immediately with plenty of water.

**S36/37/39** – Wear suitable protective clothing, gloves and eye/face protection.

**S61** – Avoid release to the environment. Refer to special instruction/safety data sheet.

End of the document.