

# Ultraweld Starting Powder

## Safety Data Sheet

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

#### 1.1. Product identifier

Product name. : Ultraweld Starting Powder

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

Use of the substance/mixture : Manufacturing

#### 1.3. Details of the supplier of the safety data sheet

Harger  
301 Ziegler Drive  
Grayslake, IL 60030  
T 847-548-8700 - F 847-548-8755

#### 1.4. Emergency telephone number

No additional information available

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Acute Tox. 4 (Oral) H302  
Aquatic Acute 1 H400  
Aquatic Chronic 1 H410

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H302 - Harmful if swallowed  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) :

P264 - Wash thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P273 - Avoid release to the environment  
P301+P312 - If swallowed, call a doctor if you feel unwell  
P330 - If swallowed, rinse mouth  
P391 - Collect spillage  
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

No data available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

Full text of H-phrases: see section 16

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Copper(I) oxide	(CAS No) 1317-39-1	20 - 40	Acute Tox. 4 (Oral), H302 Acute Tox. Not classified (Dermal)
Ferric oxide black	(CAS No) 1317-61-9	20 - 40	Not classified
Aluminum	(CAS No) 7429-90-5	20 - 40	Not classified

# Ultraweld Starting Powder

## Safety Data Sheet

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Gently wash with plenty of soap and water. Remove contaminated clothing.
- First-aid measures after eye contact : Flush eyes with water to remove dust, do not rub as particles may cause damage. Seek medical attention if irritation develops or persists.
- First-aid measures after ingestion : If swallowed: Rinse mouth. Do NOT induce vomiting. Seek medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause respiratory irritation. Repeated overexposures may affect the respiratory system, liver and cause a discoloration of the skin, hair, etc. An excess of Copper in the body may lead to Wilson's Disease. Considered an Irritant.
- Symptoms/injuries after skin contact : None under normal use.
- Symptoms/injuries after eye contact : Direct contact with the eyes is likely irritating.
- Symptoms/injuries after ingestion : May be harmful if swallowed.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Use Dry Sand, Water, Carbon Dioxide
- Unsuitable extinguishing media : None.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : None known.
- Explosion hazard : The materials are not explosive. If packing materials are ignited, large amounts of water should be applied to prevent the material from igniting. Do not breathe smoke.

#### 5.3. Advice for firefighters

- Protection during firefighting : Ultraweld is an exothermic product, which when ignited, produces molten materials in excess of 4000°F and localized smoke. Firefighters should wear full protective gear.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- For containment : Recover the product by vacuuming, shovelling or sweeping.
- Methods for cleaning up : Minimize generation of dust. Dispose of waste in accordance with local, state and federal regulations.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Follow all product handling instructions and observe safety procedures.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a clean and dry restricted access area. Do not subject to rough handling or physical damage, nor excessive vibration. Store in accordance with "This Side Up" labels. Protect from weather and moisture.

#### 7.3. Specific end use(s)

Manufacturing

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

# Ultraweld Starting Powder

## Safety Data Sheet

Aluminum (7429-90-5)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

### 8.2. Exposure controls

Appropriate engineering controls	: Local exhaust and general ventilation must be adequate to meet exposure standards.
Hand protection	: Wear gloves for high temperature protection.
Eye protection	: Wear safety glasses with side shields.
Skin and body protection	: Wear suitable working clothes.
Respiratory protection	: If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granules
Color	: Black/silver
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: > 1200 °F
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 4.4
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

### 10.3. Possibility of hazardous reactions

Will not occur.

### 10.4. Conditions to avoid

Avoid temperatures above 850°F.

### 10.5. Incompatible materials

Keep away from strong acids and moisture.

### 10.6. Hazardous decomposition products

Fumes of copper and aluminum will be given off when ignited.

# Ultraweld Starting Powder

## Safety Data Sheet

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

Ultraweld Starting Powder	
ATE (oral)	500.000 mg/kg bodyweight

Copper(I) oxide (1317-39-1)	
LD50 oral rat	470 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	5 mg/l/4h

Ferric oxide black (1317-61-9)	
LD50 oral rat	> 10000 mg/kg

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

Copper(I) oxide (1317-39-1)	
EC50 Daphnia 1	0.51 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	65 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)
EC50 other aquatic organisms 2	0.021 - 0.037 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

Copper(I) oxide (1317-39-1)	
BCF fish 1	(does not generally accumulate)

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

### SECTION 14: Transport information

In accordance with DOT / ADR / RID / ADNR / IMDG / ICAO / IATA

#### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

Copper(I) oxide (1317-39-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

# Ultraweld Starting Powder

## Safety Data Sheet

### Ferric oxide black (1317-61-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Aluminum (7429-90-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting	1.0 % (dust or fume only)
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### 15.2. US State regulations

#### Aluminum (7429-90-5)

U.S. - Massachusetts - Right To Know List  
U.S. - Minnesota - Hazardous Substance List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Acute Tox. Not classified (Dermal)	Acute toxicity (dermal) Not classified
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
H302	Harmful if swallowed
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*