| SECTION 1: Identification of the sub | ostance/mixture and of the company/undertaking |
|---|---|
| 1.1. Product identifier | |
| Product name. | : Ultraweld Starting Powder |
| 1.2. Relevant identified uses of the sub | stance 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 r | nixture |
| 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) | : GHS07 GHS09 |
| 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 no 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 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 |

| attention i initiation develops or persists. First-aid measures after ingestion : If swallowed: Rinse mouth. Do NOT induce vorning. Seek medical attention. 42. Most important symptoms and effects, both acute and delayed Symptoms/injuries after inhalation : May cause respiratory irritation. Repeated oversposures may affect the respiratory system, i, and cause a discloration of the skin, hair, etc. An excess of Copper in the body may lead to Wilson's Disease. Considered an Irritant. Symptoms/injuries after eye contact : Direct contact with the eyes is likely irritating. 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 media : Use Dry Sand, Water, Carbon Dioxide Stable extinguishing media : Use Dry Sand, Water, Carbon Dioxide Site is a position of any immediate medical attention and expecial treatment needed No additional information : None known. : Extinguishing media : Use Dry Sand, Water, Carbon Dioxide Stable extinguishing media : Use Dry Sand, Water, Carbon Dioxide : Sone known. Stype contain frequence or mixture : None known. : | SECTION 4: First aid measures | |
|--|---------------------------------------|---|
| istead measures after skin contact : Gordy wash with plonty of soap and water. Remove contaminated clothing. First-aid measures after skin contact : Fush eyes with water to remove dust, do not to be spaticles may cause damage. Seek med afteritori i first-aid weekpes or persists. First-aid measures after ingestion : If swallowed: Rinse mouth. Do NOT induce vomting. Seek medical attention. 12. Most important symptoms and effects, both actic and delayed Symptoms/injuries after inhalation : May cause respiratory irritation. Repeated overexposures may affect the respiratory system, I and cause a discoloration of the skin, fair, etc. An excess of Copper in the body may lead to Window's Disease. Considered an intrat. Symptoms/injuries after skin contact : Drote under normal use. Symptoms/injuries after agention : May be harmful if swallowed. 13. Indication of any immediate medical attention and special treatment needed No additional information available SECTION 5: Firefighting measures 52. Special information 52. Special hazards arising from the substance or mixture The materials are not explosive. If packing materials are ignited, large amounts of water shou be applied to prevent the material from igniting. Do not breathe smoke. 53. Advise for firefightures 54.1. Perional precautions, protective equipment and energiency procedures 54.1. Perional precautions available 54.2. Concolinement precautions for safe handling 55.2. Procein and precautions for safe handling 7 Munitize generation of dust. Dispose of waste in accordance with local, state and federal reguilations for safe handling 7 | 4.1. Description of first aid measure | S |
| First-aid measures after eye contact : Flust-over with value to remove dust, do not to be particles may cause damage. Seek med attention if initiation develops or persists. First-aid measures after ingestion : If swallowed: Rinse mouth. Do NOT induce vomiting. Seek medical attention. 14. Most important symptoms and effects, both acute and delayed Symptoms/injuries after inhelation :: May cause registration (initiation considered an infrat. Symptoms/injuries after inhelation :: May cause registration (initiation considered an infrat. Symptoms/injuries after indexton :: None under normal use. Symptoms/injuries after ingestion :: May be harmful if swallowed. 13. Indication of any immediate medical attention and special treatment needed Vo additional information available Stable be triggistring media :: Use Dry Sand, Water, Carbon Dioxide Initiation of any immediate medical attention and special treatment needed Vo additional information available :: Use Dry Sand, Water, Carbon Dioxide Initiation of any immediate medical attention and special treatment needed Vo additional information available :: Use Dry Sand, Water, Carbon Dioxide Initiation and special treatment needed Vo additional information available :: Use Dry Sand, Water, Carbon Dioxide Initiation and special treatment needed Vo additional information available <td< td=""><td>First-aid measures after inhalation</td><td></td></td<> | First-aid measures after inhalation | |
| It initiation develops or persists. Automatical initiation develops or persists. Automatical initiation Section 2.1 Section 2.2 Most important symptoms and effects, both acute and delayed Symptoms/injuries after inhalation Automatical initiation Automatical initiation Automatical initiation Automatical initiation Symptoms/injuries after skin contact X in None under normal use. Symptoms/injuries after skin contact X in None under normal use. Symptoms/injuries after skin contact X in None under normal use. Symptoms/injuries after skin contact X in None under normal use. Symptoms/injuries after skin contact X in May cause respiratory irritation, Repeated overexposures may affect the respiratory system, I, and cause a discolarization of the skin, Inst. etc. An excess of Copper in the body may lead to Wistor's Disease. Consoler on Internation Symptoms/injuries after skin contact X in None under normal use. Symptoms/injuries after skin contact X in May cause respiratory irritation, Symptoms/injuries after skin contact X in May be familul if wallowed. Automatical information available Section 5: Firefighting measures Section 5: Firefighting measures Section 5: Firefighting measures Substate arising from the substance or mixture Tre hazard X in the material are not explosive. If packing materials are ignited, large amounts of water shou be applied to prevent the material from igniting. Do not to treate smoke. Section 6: Accidental release measures Section 6: Accidental release meas | First-aid measures after skin contact | : Gently wash with plenty of soap and water. Remove contaminated clothing. |
| 1.2. Most important symptoms and effects, both acute and delayed symptoms/injuries after inhalation : May cause respiratory initiation. Repeated overexposures may affect the respiratory system, I, and cause a discolariation of the skin, han, etc. An excess of Copper in the body may lead to Wilson's Disease. Considered an Irntant. symptoms/injuries after skin contact : Nore under normal use. Symptoms/injuries after skin contact : Direct contact with the eyes is likely initiating. Symptoms/injuries after skin contact : Direct contact with the eyes is likely initiating. Symptoms/injuries after skin contact : Direct contact with the eyes is likely initiating. Symptoms/injuries after skin contact : Direct contact with the eyes is likely initiating. Symptoms/injuries after ingestion : May be harmful if swallowed. State the inguishing media : Use Dry Sand, Water, Carbon Dioxide Jinsuitable extinguishing media : Use Dry Sand, Water, Carbon Dioxide Jinsuitable extinguishing media : Use None. Spleision hazard : None known. State for infelighters : Ultraweld is an exothermic product, which when ignited, produces molten materials in excess 4000°F and localized smoke. Firefighters should wear full protective gear. SECTION 61: Accidental release mediasures : Ultraweld is an exothermic product, which when ignited, produces molten materials in excess 4000°F and localized | First-aid measures after eye contact | |
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| and cause a discolorátion of the skin, hair, etc. An excess of Čopper in the body máy fead to Wilson's Discess. Considered an Initiant. Symptoms/injuries after skin contact : None under normal use. Symptoms/injuries after skin contact : Direct contact with the eyes is likely irritating. Symptoms/injuries after ingestion : May be harmful if swallowed. Indication of any immediate medical attention and special treatment needed No additional information available SECTION 5: Firefighting measures Suitable extinguishing media : Use Dry Sand, Water, Carbon Dioxide Disultable extinguishing media : None. Suitable extinguishing media : None Known. Suitable extinguishing media : None Known. Suitable extinguishing media : None Known. Suitable extinguishing media : Uter by Sand, Water, Carbon Dioxide Directaord : None Known. Suitable extinguishing media : Uter by Sand, Water, Carbon Dioxide Directaord : The materials are not explosive. If packing materials are ignited, large amounts of water shou be applied to prevent the material from igniting. Do not breathe smoke. Satures : Ultraweld is an exothermic product, which when ignited, produces molten materials in excess 4000° and localized smoke. Firefighters should wear full protective gear. SECTION 6: Accidental release measures 51.1. For non-emergency personnel No additional information available 51.2. For emergency responders No additional information available 51.3. For onn-emergency personnel No additional information available 51.4. Reference to other sections No additional information available SECTION 7: Handling and storago Xi A. Reference to other sections No additional information available SECTION 7: Handling and storago Xi A. Reference to other sections No additional information available SECTION 7: Handling and storago Xi A. Reference to other sections No additional information available SECTION 7: Handling and storage Xi A. Reference to other sections No additional information available SECTION 7: Handling and storage Xi A. Reference to other sections No additi | | effects, both acute and delayed |
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| 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 acess 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 | Methods for cleaning up | : Minimize generation of dust. Dispose of waste in accordance with local, state and federal |
| 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 acess 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 | 6.4. Reference to other sections | |
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| Manufacturing | | : Store in a clean and dry restricted acess area. Do not subject to rough handling or physical damage, nor excessive vibration. Store in accordance with "This Side Up" labels. Protect from |
| Manufacturing | 7.3. Specific end use(s) | |
| SECTION 8: Exposure controls/personal protection | | |
| | SECTION 8: Exposure controls/p | ersonal protection |
| 8.1. Control parameters | | |

| Aluminum (7429-90-5) | | | |
|--|---|---|--|
| USA ACGIH | ACGIH TWA (mg/m³) | 1 mg/m ³ | |
| USA OSHA | OSHA PEL (TWA) (mg/m3) | 5 mg/m³ | |
| 8.2. Exposure controls | 8.2. Exposure controls | | |
| Appropriate engineering controls | Appropriate engineering controls : Local exhaust and general ventilation must be adequate to meet exposure standards. | | |
| Hand protection : Wear gloves for high temperature protection. | | tection. | |
| Eye protection : Wear safety glasses with side shields. | | | |
| Skin and body protection | Skin and body protection : Wear suitable working clothes. | | |
| Respiratory protection | : If airborne concentrations are above to respiratory protection. | he applicable exposure limits, use NIOSH approved | |

| SECTION 9: Physical and chemical properties | | |
|---|--|--|
| 9.1. Information on basic physical and o | chemical properties | |
| Physical state | : Solid | |
| Appearance | : Granules | |
| Color | : Black/silver | |
| Odor | : Odorless | |
| Odor threshold | : No data available | |
| рН | : 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 | Dxidising properties : No data available | |
| Explosive limits | : No data available | |
| 9.2. Other information | | |
| No additional information available | | |

| SECTIO | DN 10: Stability and reactivity |
|------------|---|
| 10.1. | Reactivity |
| No additio | onal information available |
| 10.2. | Chemical stability |
| The produ | uct is stable at normal handling- and storage conditions. |
| 10.3. | Possibility of hazardous reactions |
| Will not o | ccur. |
| 10.4. | Conditions to avoid |
| Avoid tem | aperatures above 850°F. |
| 10.5. | Incompatible materials |
| Keep awa | ly from strong acids and moisture. |
| 10.6. | Hazardous decomposition products |
| Fumes of | copper and aluminum will be given off when ignited. |

EN (English)

| 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 | |
| | : Not classified | |
| Reproductive toxicity | : Not classified | |
| Specific target organ toxicity (single exposure) | | |
| Specific target organ toxicity (repeated : Not classified exposure) | | |
| Aspiration hazard | : Not classified | |
| SECTION 42. Ecological information | | |
| 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 consideratior | IS | |
| I3.1. Waste treatment methods | | |
| Vaste disposal recommendations | : Dispose of contents/container in accordance with local/regional/national/international regulation | |
| | · · · · | |
| SECTION 14: Transport information | | |
| In accordance with DOT / ADR / RID / ADNR / IM | IDG / ICAO / IATA | |
| I4.1. UN number | | |
| Not applicable | | |
| 14.2. UN proper shipping name | | |
| Not applicable | | |
| | | |
| SECTION 15: Regulatory informatior | | |
| 15.1. US Federal regulations | | |
| Copper(I) oxide (1317-30-1) | | |
| Copper(I) oxide (1317-39-1) Listed on the United States TSCA (Toxic Subst | ances Control Act) inventory | |
| LISTOR OF THE OFFICER STATES TOCA (TUXIC SUDST | | |

EN (English)

Ultraweld Starting Powder

Safety Data Sheet

| 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) | |

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.