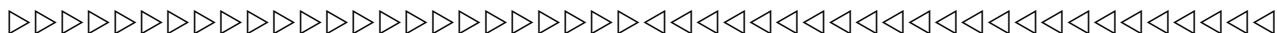




**Precautions for Safe Handling:** Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk; evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents, acids, alkalis. Dispose of according to Federal, State, Local and OSHA regulations.

Class 1	
Impact of Spatter	15 Drops
Heat Transfer (radiation)	RHTI 24 $\geq$ 7 seconds
Process	<p>Manual welding with light formation of spatter and drops</p> <ul style="list-style-type: none"> <li>• Gas Welding</li> <li>• TIG Welding</li> <li>• MIG Welding</li> <li>• Micro plasma welding</li> <li>• Brazing</li> <li>• Spot Welding</li> <li>• MMA Welding (with rutile-covered electrode)</li> </ul>



Environmental Conditions	<p>Operation of machines</p> <ul style="list-style-type: none"> <li>• Oxygen cutting machines</li> <li>• Plasma cutting machines</li> <li>• Resistance welding machines</li> <li>• Machines for thermal spraying</li> <li>• Bench welding</li> </ul>
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Class 2	
Impact of Spatter	25 Drops
Heat Transfer (radiation)	RHTI 24 ≥ 16 seconds
Process	<p>Manual welding with heavy formation of spatter and drops</p> <ul style="list-style-type: none"> <li>• MMA welding (with basic or cellulose-covered electrodes)</li> <li>• MAG welding (with CO<sub>2</sub> or mixed gases)</li> <li>• MIG Welding (with high current)</li> <li>• Self shielded flux core arc welding</li> <li>• Plasma cutting</li> <li>• Gouging</li> <li>• Oxygen cutting</li> <li>• Thermal spraying</li> </ul>
Environmental Conditions	<p>Operation of machines</p> <ul style="list-style-type: none"> <li>• In confined spaces</li> <li>• At overhead welding/cutting or in comparable constrained positions</li> </ul>

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

**Appearance:** Solid

**Color:** Lustrous Silver 3112/ None 3115/ None

**Odour:** Odourless

**Odour Threshold:** Not Available

**pH Value:** Not Available

**Specific Gravity:** 2697 lbs/in<sup>3</sup>

**Melting Point/Melting Range:** 430° F, 221° C

**Freezing Point:** Not Available

**Boiling Point/Boiling Range:** Sn@ 4120° F, 2270° C

Ag@ 4010° F, 2210° C

Flux = 385° F, 251.66° C

**Flash point:** Not Available

**Evaporation Rate:** Not Available

**Self-in flammability:** Not Available

**Explosion limits:** Not Available

**Vapour pressure:** Not Available

**Vapour density:** Not Available

**Density at 20°C:** Not Available

**Relative density:** 6- 9 g/cm<sup>3</sup>

**Solubility:** Insoluble in water.

**Partition coefficient:** Not Available

**Auto-ignition temperature:** Not Available

**Decomposition temperature:** Not Available

**Other Information:** No available data.

## 10. STABILITY AND REACTIVITY:

**Chronic Effects:** Overexposure to welding fumes may affect pulmonary function. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs. Repeated exposure Ethylene Diamine dihydrochloride may cause asthma.



**H315** – Causes skin irritation.

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

**H319** – Causes serious eye irritation.

**H334** – May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**H335** – May cause respiratory irritation.

**R-Phrases:**

**R22** – Harmful if swallowed.

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

**R42** – May cause sensitization by inhalation.

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

**S-Phrases:**

**S22** – Do not breathe dust.

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

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

**S45** – In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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