

# MATERIAL SAFETY DATA SHEET

## Identification of the Substance/Preparation

Substance or preparation trade name: 5% Magnesium Aluminum wire

## Unique Reference Numbers

AR5216, AR5220, AR5224, AR5232, AR5510, A5512, A5210, A5212, A5610, A5612

## Composition

NAME	CAS	RN%
Aluminum alloy wire which during use generates welding fumes	Not avail.	
<i>Consisting of</i>		
Aluminum fumes	7429-90	5>80
Magnesium oxide fume	1309-48-4	10-30
Iron oxide fume	1309-37-1	<0.5
Silica welding fumes	69012-64-2	<1
Action of arc on air may generate ozone	10028-15-6	
Nitrogen oxides	Mixture	

## First Aid Measures

**Skin contact:** If skin or hair contact occurs:· Flush skin and hair with running water (and soap if available).· Seek medical attention in event of irritation.

**Eye contact:**· Particulate bodies from welding spatter may be removed carefully.· DO NOT attempt to remove particles attached to or embedded in eye.· Lay victim down, on stretcher if available and pad BOTH eyes, make sure dressing does not press on the injured eye by placing thick pads under dressing, above and below the eye.· Seek urgent medical assistance, or transport to hospital.

**Ingestion:** Not normally a hazard due to the physical form of product. The material is a physical irritant to the gastro-intestinal tract.

**Inhalation:**· If fumes or combustion products are inhaled remove from contaminated area.· Lay patient down. Keep warm and rested.· Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.· Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.· Transport to hospital, or doctor.

## Firefighting Measures

**Suitable extinguishing media:** There is no restriction on the type of extinguisher which may be used.

**Unsuitable extinguishing media:** There is no restriction on the type of extinguisher which may be used.

**Special hazards in fire:** Avoid contact with strong acids and strong alkali's.

**Required special protective equipment for fire-fighters:** Use firefighting procedures suitable for surrounding area.

## Accidental Release Measures

**Individual precautions:** Avoid dust formation/ breathing dust.

**Environment protection precautions:** No particular indications.

**Cleaning measures:** Remove spoiled product mechanically.

## Handling and Storage

**Handling:** With standard transportation equipment.

**Storage:** Store in a dry place in closed packages.

## Exposure Controls

**Engineering measures:** Use adequate local exhaust for welding fumes. Avoid grinding dust inhalation.

**Personal protection equipment:** use an air purifying dust respirator.

**Eye protection:** welder's helmets

**Hand protection:** wear appropriate gloves to prevent skin contact.

**Skin protection:** wear appropriate overalls to prevent skin or body contact.

## Physical and Chemical Properties

**Appearance:** Silver wire or rods

**Odour:** None

**pH:** non applicable

**Boiling point:** 2467.0 C

**Melting point:** 620-700° C

**Flash-point:** na

**Explosive properties:** na

**Vapour pressure:** na

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

**Solubility:** insoluble in water

## Stability and Reactivity

**Conditions to avoid:** not applicable.

**Materials to avoid:** reacts with acids.

**Hazardous decomposition products:** not known

## Toxicological Information

**Acute toxicity:** unknown

**Local effects:** not applicable.

*Excessive exposure may affect human health as follows:*

**Skin contact:** no adverse effects expected.

**Eye contact:** Not applicable

**Inhalation/ingestion:** not applicable for the product. For welding fumes see section 3.

## Ecological Information

Data are unknown

## 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.

## Transport Information

**Land shipment:** no hazard - Rail / route (RID/ADR):

**Sea shipment:** no hazard

**Shipment by air:** no hazard

## Regulatory Information

**Label CEE:** not necessary

## 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 assume 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 Super fund Amendments and Reauthorization Act (SARA) of 1986 Public Law 99-499