

**Safety Data Sheet
Casweld AL**

SECTION 1: Identification

1.1 Product identifier

Product name	Casweld AL
Product number	CWAL
Brand	Caswell

1.4 Supplier's details

Name	Caswell Inc	PRODUCT SUPPLIED IN AUSTRALIA BY
Address	7696 Route 31 Lyons, NY 14489 USA	CASWELL AUSTRALIA P/L Factory 1, 51 ELM PARK DRIVE HOPPERSCROSSING 3029 VICTORIA
Telephone	315 946 1213	PHONE 03 9741 7103
Fax	315 946 4456	EMERGENCY NUMBER 000
email	sales@caswellplating.com	

1.5 Emergency phone number(s)

Office Hours (9-4ET): 315 946 1213
24 Hour: CHEMTEL US# 1-800-255-3924 Int# +01-813-248-0585

SECTION 2: Hazard identification

General hazard statement

Not considered a hazard in its solid form. Hazards are from fumes during use and heat.

2.1 Classification of the substance or mixture

GHS classification in accordance with: (EC) No 1272/2008 (CLP)

- Flammable solids (chapter 2.7), Cat. 2

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word

Warning

Safety Data Sheet

Casweld AL

Hazard statement(s)

H228 Flammable solid

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378 In case of fire: Use ... to extinguish.

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous components

1. Aluminum (Wire)

Concentration 80 - 95 %
EC no. 231-072-3
CAS no. 7429-90-5
Index no. 013-002-00-1

2. Silicon (metal)

Concentration 5 - 15 %
CAS no. 7440-21-3

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact Wash off with soap and plenty of water. Get medical attention if symptoms occur.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Personal protective equipment for first-aid responders
See section 8

4.2 Most important symptoms/effects, acute and delayed

not established

4.3 Indication of immediate medical attention and special treatment needed, if necessary

not established

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. Welding sparks can ignite combustible and flammable materials. Use media recommended for burning material.

5.2 Specific hazards arising from the chemical

Aluminum Oxides, Silicon Oxides

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

See section 8

6.2 Environmental precautions

See section 13

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Silicon (CAS: 7440-21-3)

PEL (Inhalation): See PNOR (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

2. Silicon, Total dust (CAS: 7440-21-3)

PEL (Inhalation): 15 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

3. Silicon, Total dust (CAS: 7440-21-3)

PEL (Inhalation): 10 mg/m³, See PNOR (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

4. Silicon, Total dust (CAS: 7440-21-3)

REL (Inhalation): 10 mg/m³ (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

5. Silicon, Respirable fraction (CAS: 7440-21-3)

PEL (Inhalation): 5 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

Safety Data Sheet

Casweld AL

6. Silicon, Respirable fraction (CAS: 7440-21-3)

PEL (Inhalation): 5 mg/m³, See PNOR (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

7. Silicon, Respirable fraction (CAS: 7440-21-3)

REL (Inhalation): 5 mg/m³ (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

8.2 Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Welder's helmet or face shield with color absorbing lenses. Shield and filter to provide protection from UV radiation, infrared and molten metal approved to standard EN379. Filter shade to be a minimum of shade 9.

Skin protection

Heat resistant protective clothing. Safety boots, apron, arm and shoulder protection.

Body protection

Type A or B gloves. Type B recommended when high dexterity is required.

Respiratory protection

Use an air purifying dust respirator when welding or brazing in a confined space, or when local exhaust or ventilation is not sufficient to keep exposure values within safe limits.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Solid
Odor	None
Odor threshold	Not Available
pH	Not Available
Melting point/freezing point	1080 deg F
Initial boiling point and boiling range	Not Available
Flash point	Not Available
Evaporation rate	Not Available
Flammability (solid, gas)	Not Available
Upper/lower flammability limits	Not Available
Vapor pressure	Not Available
Vapor density	Not Available
Relative density	6 g/cm ³
Solubility(ies)	Insoluble
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Viscosity	Not Available

Safety Data Sheet

Casweld AL

Explosive properties
Oxidizing properties

Not Available
Not Available

SECTION 10: Stability and reactivity

10.1 Reactivity

Contact with chemical substances like acids or strong bases cause generation of gas. Keep away from any possible contact with water, because of violent reaction and possible flash fire.

10.2 Chemical stability

Stable

10.5 Incompatible materials

Reacts with water and acid

10.6 Hazardous decomposition products

When this product is used in a welding process, hazardous decomposition product would include those from volatilization, reaction or oxidation of the material listed in section 3 and those from the base metal and coating. The amount of fumes generated from this product varies with welding parameters and dimensions. Refer to applicable national exposure limits for fume compounds, including those exposure limits for fume compounds found in section 3. Reasonably expected gaseous products would include carbon oxides, nitrogen oxides and ozone. Air contaminants around the welding area can be affected by the welding process and influence the composition and quality of fumes and gases produced.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Overexposure to welding fumes may result in symptoms like metal fume fever, dizziness, nausea, dryness or irritation of the nose, throat or eyes. May cause sensitisation by skin contact.

LD/LC50 Values that are relevant for classification

Aluminum 7429-90-5 Oral LD50 >15900 mg/kg (rat) Inhalation LC50 >.888 mg/L/4 hr. (rat) LC50 12 mg/l (96h) (rainbow trout)

Silicon 7440-21-3 Oral LD50 3160 mg/kg (rat)

Respiratory or skin sensitization

Overexposure to welding fumes may affect pulmonary function.

Carcinogenicity

Inhalation of welding fumes and gases can be dangerous to your health. Classification of welding fumes is difficult because of varying base materials, coatings, air contaminants and processes. The Internal Agency for Research on Cancer has classified welding fumes as possible carcinogenic to humans (Group 2B).

STOT-repeated exposure

Overexposure to welding fumes may affect pulmonary function.

SECTION 12: Ecological information

Toxicity

Welding rods contain metals which are considered to be very toxic towards aquatic organisms. Finely divided welding rods are therefore considered harmful to aquatic organisms

Safety Data Sheet

Casweld AL

Bioaccumulative potential

Welding rods contain heavy metals which bio accumulates in the food chain. The following figures are the bio concentration factor (BCF) for the substances on their own. BCF: Aluminum, BCF: 18

SECTION 13: Disposal considerations

Disposal of the product

Consult appropriate federal and local regulations for disposal. Empty containers are subject to the same regulations.

Disposal of contaminated packaging

Consult appropriate federal and local regulations for disposal. Empty containers are subject to the same regulations.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Massachusetts Right To Know Components

Chemical name: Aluminum (fume or dust)

CAS number: 7429-90-5

New Jersey Right To Know Components

Common name: ALUMINUM

CAS number: 7429-90-5

Pennsylvania Right To Know Components

Chemical name: Aluminum

CAS number: 7429-90-5

New Jersey Right To Know Components

Common name: SILICON

CAS number: 7440-21-3

Pennsylvania Right To Know Components

Chemical name: Silicon

CAS number: 7440-21-3

HMIS Rating

Casweld AL	
HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

Safety Data Sheet

Casweld AL

PERSONAL PROTECTION	D
---------------------	---

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Caswell Inc be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Caswell Inc has been advised of the possibility of such damages.