

SAFETY DATA SHEET

Issuing Date 13-Jul-2012 Revision Date 20-Jan-2025 **Revision Number** 10

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Aluminum Wire

Other means of identification

Product Code(s) **ALUMINUM WIRE Synonyms** Magnet Wire

Recommended use of the chemical and restrictions on use **Recommended Use** Electrical Conductor. No information available Uses advised against

Details of the supplier of the safety data sheet

Supplier Address

Essex Solutions USA LLC. 1601 Wall Street Fort Wayne, Indiana 46802 Telephone 260.461.4000

Emergency telephone number

Chemtrec: 1-800-424-9300 for US/ 001 703-527-3887 outside US **Emergency Telephone**

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Varies Physical state solid Odor None

Hazards not otherwise classified (HNOC)

Not Applicable Other Information Not applicable

Unknown acute toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Not Applicable Mixture

Magnet Wire. **Synonyms**

Chemical name	CAS No	Weight-%	Trade secret
Aluminum	7429-90-5	90 - 100%	*

4. FIRST AID MEASURES

Description of first aid measures

General advice This product is an article as sold. When the material is soldered, welded or hot staked it

may release vapors or fumes from the degradation of the coating. All first aid measures

assume welding or hot staking has occurred.

Exposure to fumes, vapors or smoke from thermally degraded product can cause irritation to

eyes. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a physician.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Consult a physician if

necessary.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Consult

a physician.

Most important symptoms and effects, both acute and delayed

Symptoms

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use water spray, fog, Carbon dioxide (CO₂), foam or dry chemical.

Unsuitable extinguishing media Decomposition by contact with water may generate vapors which can be ignited by heat or

open flame.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containmentPrevent further leakage or spillage if safe to do so.Methods for cleaning upPick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage ConditionsIncompatible materials
Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible with strong acids and bases. Acetylene gas and magnesium.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

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Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum	TWA: 1 mg/m ³ respirable	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
7429-90-5	particulate matter	TWA: 5 mg/m ³ respirable fraction	TWA: 5 mg/m ³ respirable dust
	•	(vacated) TWA: 15 mg/m3 total dust	TWA: 5 mg/m ³ Al
		(vacated) TWA: 5 mg/m ³ respirable	_
		fraction	
		(vacated) TWA: 5 mg/m ³ Al	
		Aluminum	

Appropriate engineering controls

Engineering controls Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly fitting safety goggles Avoid contact with eyes

No special protective agricultured.

Skin and body protection

Respiratory protection

No special protective equipment required.

No protective equipment is needed under a

No protective equipment is needed under normal use conditions. Exposure to fumes, vapors or smoke from thermally degraded product can cause respiratory system irritation. Some of these component chemicals include low concentrations of phenol, cresols, and xylene, as well as burnt resinous material. At extremely high temperatures toluene di-isocyante (TDI) may be emitted from certain coated wire. TDI is considered a sensitizer and may be a

carcinogen. Use only with adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical statesolidAppearanceVariesOdorNone

Color No information available Odor threshold No information available

PropertyValuesRemarks • MethodpHNo information availableNo information available

Melting point / freezing point

Boiling point / boiling range
Flash point

No information available
No information available
No information available
No information available
(based on .?)

Evaporation rate
No information available
No information available

Flammability Limit in Air

Upper flammability limit:

Lower flammability limit:

No information available

No information available

Vapor pressure

No information available

Vapor density 5

Relative density

No information available

Water solubility Practically insoluble (~0.4 ug/mL)
Solubility in other solvents No information available

Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
No information available

Oxidizing properties No information available

Other Information

Softening point No information available

Molecular weight
VOC Content (%)

No information available

Liquid Density 2.70 g/cm

Bulk density No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

Incompatible with strong acids and bases. Acetylene gas and magnesium.

Hazardous decomposition products

Carbon dioxide (CO₂). Thermal decomposition can lead to release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Harmful by inhalation At extremely high temperatures toluene di-isocyante (TDI) may be

emitted from certain polyurethane coated wire. TDI is considered a sensitizer and may be

a carcinogen.

InhalationThere is no data available for this product.Eye contactThere is no data available for this product.Skin contactThere is no data available for this product.IngestionThere is no data available for this product.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.Reproductive toxicityNo information available.Specific target organ toxicity (single No information available.

exposure)

STOT - repeated exposure No information available.

Chronic toxicity Prolonged exposure to fumes from welding or hot staking may cause chronic effects.

Target organ effects Eyes, Lungs.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

5 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastesDispose of in accordance with local regulations. Recyclable material. Please send to local

recycling center.

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

DOT

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies **ENCS** Complies Complies **IECSC KECL** Complies **PICCS** Complies Complies **AICS**

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

Canadian Inventory Legend

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Aluminum	7429-90-5	>90	1.0

SARA 311/312 Hazard Categories

Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Aluminum	X	X	X

7429-90-5

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 1 Flammability 0 Instability 0 Physical and chemical

properties -

HMIS Health hazards 1 Flammability 0 Physical hazards 0 Personal precautions X

Prepared By Robert Distler Issuing Date 13-Jul-2012 Revision Date 20-Jan-2025

Revision Note Updated Logo

SDS section(s) updated 15 - Verified most current CA Prop 65 information

<u>Disclaimer</u>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

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