# **SAFETY DATA SHEET**

01T - Aluminum Wire



## Section 1. Identification

GHS product identifier	: 01T - Aluminum Wire
Other means of	: Not available.
identification	
Product type	: Solid.

Relevant identified uses of the substance or mixture and uses advised against Not applicable.

Supplier's details	: TAFA Inc. A Praxair Surface Technologies Company 146 Pembroke Rd. Concord, NH 03301
Emergency telephone number (with hours of	: Emergency telephone number (with hours of operation)

operation)

## Section 2. Hazards identification

OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the	: Not classified.
substance or mixture	
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.

# Section 3. Composition/information on ingredients

Substance/mixture	: Substance
Other means of	: Not available.
identification	

#### **CAS number/other identifiers**

CAS number	: Not available.		
Product code	: 01T - Aluminum Wire		
Ingredient name		%	CAS number
01T - Aluminum Wire		100	-
Aluminum		>99	91728-14-2
chromium		<1	7440-47-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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### Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

Description of neces	sary first aid measures
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>
Ingestion	: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

Potential acute health	<u>effects</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/	<u>symptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate	e medical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

**Protection of first-aiders** 

### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: metal oxide/oxides

: No action shall be taken involving any personal risk or without suitable training.

# Section 5. Fire-fighting measures

Special protective actions	: Promptly isolate the scene by removing all persons from the vicinity of the incident if
for fire-fighters	there is a fire. No action shall be taken involving any personal risk or without suitable
-	training.
Special protective	: Fire-fighters should wear appropriate protective equipment and self-contained breathing

equipment for fire-fighters

# apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

Personal precautions, protec	tiv	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	onta	ainment and cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
Section 7 Handlin	2	and starses

### Section 7. Handling and storage

Precautions for safe handling		
Protective measures	Put on appropriate personal protective equipment (see Section 8).	
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eat drinking and smoking. Remove contaminated clothing and protective equipment be entering eating areas. See also Section 8 for additional information on hygiene measures.	
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible mate (see Section 10) and food and drink. Keep container tightly closed and sealed unt ready for use. Containers that have been opened must be carefully resealed and upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.	erials til kept

### Section 8. Exposure controls/personal protection

**Control parameters** 

**Occupational exposure limits** 

# Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Aluminum	ACGIH TLV (United States, 6/2013).
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
chromium	ACGIH TLV (United States, 6/2013).
	TWA: 0.5 mg/m <sup>3</sup> , (measured as Cr) 8 hours
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 1 mg/m <sup>3</sup> 8 hours.
	NIOSH REL (United States, 10/2013).
	TWA: 0.5 mg/m <sup>3</sup> 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 1 mg/m <sup>3</sup> , (as Cr) 8 hours.

Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airb contaminants.	orne
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to e they comply with the requirements of environmental protection legislation. In s cases, fume scrubbers, filters or engineering modifications to the process equi	some

will be necessary to reduce emissions to acceptable levels.

Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	: Solid. [Wire]		
Color	: Silvery.		
Odor	: Odorless.		
Odor threshold	: Not available.		
рН	: Not available.		
Melting point	: Not available.		
Boiling point	: Not available.		
Flash point	: Not available.		
Evaporation rate	: Not available.		
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## Section 9. Physical and chemical properties

Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Not available.
Solubility	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
VOC content	: 0 lbs/gal (0 g/l)

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
chromium	-	3	-

#### Reproductive toxicity

Not available.

**Teratogenicity** 

#### Soction 11 Toxicological information

Not available.		
Specific target organ toxicit Not available.	t <u>y (</u>	<u>single exposure)</u>
Specific target organ toxicit Not available.	t <u>y (</u>	repeated exposure)
Aspiration hazard Not available.		
nformation on the likely routes of exposure	:	Not available.
Potential acute health effects	5	
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the phy	sic	al, chemical and toxicological characteristics
Eye contact		No specific data.
Inhalation		No specific data.
Skin contact		No specific data.
Ingestion		No specific data.
	ts	and also chronic effects from short and long term exposure
Short term exposure Potential immediate		Not available.
	- 21	NOT AVAIIADIE.
effects		
effects Potential delayed effects		Not available.
effects	:	
effects Potential delayed effects Long term exposure Potential immediate	:	Not available.
effects Potential delayed effects Long term exposure Potential immediate effects	:	Not available. Not available. Not available.
effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects	:	Not available. Not available. Not available.
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effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health effe Not available. General Carcinogenicity Mutagenicity	: : ect	Not available. Not available. Not available. S No known significant effects or critical hazards. No known significant effects or critical hazards.

### **Acute toxicity estimates**

Not available.

# Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
chromium	Acute EC50 0.2 ppm Marine water Acute EC50 5 ppm Marine water	Algae - Bacillariophyta Algae - Macrocystis pyrifera - Young	72 hours 4 days
	Acute EC50 35000 μg/l Fresh water Acute LC50 45 μg/l Fresh water	Aquatic plants - Lemna minor Crustaceans - Ceriodaphnia reticulata	4 days 48 hours
	Acute LC50 22 µg/l Fresh water Acute LC50 13.9 ppm Fresh water Chronic NOEC 50 mg/l Marine water Chronic NOEC 0.19 µg/l Fresh water	Daphnia - Daphnia magna Fish - Anguilla rostrata Algae - Glenodinium halli Fish - Cyprinus carpio	48 hours 96 hours 72 hours 4 weeks

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Not available.

### <u>Mobility in soil</u>

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
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Section 14	. Transpor	t informati	on				
Additional information	-	-	-	-	-	-	

**Special precautions for user : Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

### Section 15. Regulatory information

U.S. Federal regulations       : TSCA 8(a) CDR Exempt/Partial exemption: Not determined Not determined. Clean Water Act (CWA) 307: chromium         Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)       : Not listed	
Clean Air Act Section 112 : Not listed (b) Hazardous Air	
(b) Hazardous Air	
Clean Air Act Section 602 : Not listed Class I Substances	
Clean Air Act Section 602 : Not listed Class II Substances	
DEA List I Chemicals : Not listed (Precursor Chemicals)	
DEA List II Chemicals : Not listed (Essential Chemicals)	
SARA 302/304	
Composition/information on ingredients	
No products were found.	
SARA 304 RQ : Not applicable.	
<u>SARA 311/312</u>	
Classification : Not applicable.	
Composition/information on ingredients	
No products were found.	
State regulations	
Massachusetts : None of the components are listed.	
New York : None of the components are listed.	
New Jersey         : None of the components are listed.	
Pennsylvania : None of the components are listed.	
International regulations	
Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.	
Montreal Protocol (Annexes A, B, C, E) Not listed.	
Stockholm Convention on Persistent Organic Pollutants Not listed.	
Rotterdam Convention on Prior Inform Consent (PIC)	
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### Section 15. Regulatory information

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### International lists National inventory

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.

### Section 16. Other information

<u>History</u>	
Date of printing	: 5/26/2015.
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Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>
References	• Not available

### References

: Not available.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.