

<u> Material Safety Data Sheet - MSDS</u>

Section 1. Chemical Product and Company Identification

Product name
Blueshield:
1.5% Lanthanum:

Description

Supplier

Classification

CSA:

GTAW - Tungsten electrodes.

In case of emergency

1-514-878-1667

: Air Liquide Canada Inc.

1250, René-Lévesque West, Suite 1700

Montreal, QC H3B 5E6

Classification AWS:

EWLa-1.5;

Generic Code : AL-J-006-3

Date of issue : 01/15/2011

Section 2. Hazards Identification

Physical state and Appearance :

Solid

Emergency overview

These hazards relate to welding fumes (electrodes in use) and not to the electrodes as sold.

WARNING!

ELECTRIC SHOCK can kill.

FUMES AND GASES can be dangerous to your health.

ARC RAYS can injure eyes and burn skin.

MAY BE FATAL IF INHALED. MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL

THAT CAN CAUSE TARGET ORGAN DAMAGE.

Use only with adequate ventilation. Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and clothing.

Keep container tightly closed. Wash thoroughly after handling.

Routes of entry

Inhalation.

Potential acute health effects

Eyes: Hazardous by the following route of exposure: of eye contact (irritant). Inflammation of the eye is characterized by redness, watering

and itching

Skin : Hazardous by the following route of exposure: of skin contact (corrosive). Skin contact may produce burns.

Inhalation: Hazardous by the following route of exposure: of inhalation.

Ingestion: Since the product (welding fumes) is a gas and that it is mostly probable that it will be inhaled more than ingested, please consider

first to look at the preventive measures in case of inhalation.

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Potential chronic health effects: CARCINOGENIC EFFECTS: Not classified or listed by IARC, NTP, OSHA and ACGIH.

MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.

Medical conditions aggravated

by over-exposure

: Repeated exposure to the fumes emitted while using this material may produce general deterioration of health.

(*) See Abbreviations (section 16).

Section 3. Composition, Information on Ingredients

Name CAS # % by weight UN number

Tungsten 7440-33-7 98 - 100 Not regulated.

The fumes emitted by the electrodes, in use, are hazardous. This MSDS is written for workers using these electrodes.

See Section 8 for Exposure Limits of the oxides found in the welding fumes.

Section 4. First Aid Measures

Eye contact

: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if irritation occurs.

Skin contact

: Wash with soap and water. Get medical attention if irritation develops.

Inhalation

: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.



Section 5. Fire Fighting Measures

Flammability of the product

: Non-flammable. Emits toxic fumes when heated.

Explosibility

Not available.

Fire-fighting media and instructions

: Use extinguishing media suitable for surrounding materials.

Section 6. Accidental Release Measures

Small/Large Spill and Leak

: Use appropriate tools to transfer the spilled solid to a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Section 7. Handling and Storage

Handling

Avoid breathing dusts, vapors or fumes from burning materials. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not ingest. Keep container closed. Wash thoroughly after handling.

Storage

: All filler metals in their original, unopened containers should be kept in a relatively dry storage area at temperatures between 15°C (60°F) and 30°C (80°F) and 50% maximum relative humidity.

Section 8. Exposure Controls, Personal Protection

Engineering controls

: Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protection

Eyes : Safety glasses with side shields. Face shield with radiation shielding

Body: Full suit. (Fire resistant.)

Respiratory:

Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear a canister breathing apparatus (respirator) or a supplied-air respirator, when required, to weld in a confined space or when room exhaust or ventilation does not keep exposure

below the acceptable values.

Hands : Gloves. (Fire resistant.)Feet : Metal cap, safety boots.

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
1 3 ,	AB 4/2009 BC 10/2009	-	5 5	-	-	10 10	-	-	-	-	[3] [A]

[3]Skin sensitization Notes: [Alas W

Section 9. Physical and Chemical Properties

Physical state and Appearance : Solid.

Color : Grayish-white.

Odor : Odorless.

Melting/freezing point : 3407.05°C (6164.7°F)

Specific gravity : 19.

Solubility : Insoluble in the following materials: cold water, hot water.

Section 10. Stability and Reactivity

Stability and reactivity

: The product is stable.

Hazardous decomposition products

Metallic oxides. Carbon oxides (CO, CO2). Arc radiation can support the production of ozone and nitrogen oxides.

Hazardous polymerization

• Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological Information

Chronic effects and other toxic effects on humans

: CARCINOGENIC EFFECTS: See Section 2.

Acute exposure to welding fumes may result in discomfort such as: dizziness, nause or dryness of nose, throat or the eyes.



Section 12. Ecological Information

Ecotoxicity data

Products of degradation : Some metallic oxides.

Section 13. Disposal Considerations

Waste information

: Waste must be disposed of in accordance with federal, state and local environmental control regulations. Recycle, if possible.

Consult your local or regional authorities.

Section 14. Transport Information

No transport class is found applicable to this product.

Section 15. Regulatory Information

HCS Classification

: These hazards relate to welding fumes (electrodes in use) and not to the electrodes as sold.

Target organ effects

U.S. Federal regulations

TSCA 8(a) PAIR: Tungsten

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Tungsten

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Tungsten: Immediate (acute) health hazard,

Delayed (chronic) health hazard

Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

SARA 313

Form R - Reporting requirements Supplier notification

No products were found.

No products were found.

State regulations

Massachusetts : The following components are listed: TUNGSTEN

New York : None of the components are listed.

New Jersey : The following components are listed: TUNGSTEN
Pennsylvania : The following components are listed: TUNGSTEN

California prop. 65: No products were found.

WHMIS (Canada)

These hazards relate to welding fumes (electrodes in use) and not to the electrodes as sold.

Not controlled under WHMIS (Canada).

CEPA Toxic substances: None of the components are listed.
Canadian ARET: None of the components are listed.
Canadian NPRI: None of the components are listed.

Alberta Designated Substances: None of the components are listed. Ontario Designated Substances: None of the components are listed. Quebec Designated Substances: None of the components are listed.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16. Other Information

Label requirements

: See Section 2.

Hazardous Material Information System (U.S.A.) : Health: 1 Fire: 0 Reactivity: 0

National Fire Protection Association (U.S.A.) : Health: 1 Fire: 0 Reactivity: 0

References

- 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005. - CRC Handbook of chemistry and physics, 67th edition. CRC Press inc., Boca Raton, Florida. - Manufacturer's Material Safety Data Sheet. ANSI Z400.1, MSDS Standard, 2004. ANSI Z49.1 Safety in Welding and Cutting, The American Welding Society, P.O. Box 351040, Miami, FL 33135. Canadian Standard Association, CSA W117.2, Code for Safety in Welding and Cutting, 2003.

Abbreviations and acronyms

: ACGIH: American Conference of Governmental Industrial Hygiene.

ACGIH-A4-Not Classifiable as a Human Carcinogen.

Atrion Regulatory Services, Inc.

Responsible name

Date of previous issue

: 01/30/2008

Version

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