



Version number: 1

Replaces SDS: 2009-11-23

Issued: 2014-01-21

Not for sale in the USA

Section 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Trade name

Matador

Article-no

Product/Article	Diameter(mm)	Packaging (pk/ea)	Part Number
Matador Tungsten	1.6	10	YLK 116346
Matador Tungsten	2.4	10	YLK 116347

1.2 Relevant identified uses of the substance or mixture and uses advised against

Article type GTAW (TIG) Gas tungsten arc welding ISO 6848/AWS SFA A5.12 (or other)

Gas shielded Arc welding

1.3 Details of the supplier of the safety data sheet

Supplier Ceylon Oxygen Limited

Street address No. 50, Sri Pannananda Mawatha,

Colombo 15,

Sri Lanka

+94 11 4760400, +94 11 2524381 Telephone

> Fax +94 11 4615272

Customer.service@ceylonoxygen.com Email

1.4 Emergency telephone number

Available outside office hours Yes

Emergency phone number

+94 777 357670

Other

Additional product information

Web site: www.linde.lk

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1271/2008[CLP] applicable

2.2 Label elements





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Not applicable

2.3 Other hazards

Note: When preparing (grinding) and using these electrodes as part of the welding process additional potential hazards are likely: Grinding.

Toxic dusts. Ensure adequate dust extraction, ventilation and dust disposal.

When the product is used in the welding process the most important hazards are:

Overexposure to fumes and gases from welding can be dangerous to health.

Watch out for splatter, hot metal and slag. It may cause skin burn and cause fire.

Arc rays can injure eyes and burn skin. Electric shock can kill. Avoid touching live electrical parts.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

This product is a mixture and please refer to Section 3.2

3.2 Mixtures

AWS Classification	W (min.) %	CeO₂ %	La₂O₃ %	ZrO ₂ %	Other oxides or elements (total max)
CAS Number	7440-33-7	1306-38-3	1312-81-8	1314-20-1	
EWP	99.5	-	-	-	0.5
EWCe-2	97.3	1.8-2.2	-	-	0.5
EWLa-1	98.3	-	0.8-1.2	-	0.5
EWLa-1.5	97.8	-	1.3-1.7	-	0.5
EWLa-2	97.3	-	1.8-2.2	-	0.5
EWZr-1	99.1	-	-	0.15-0.40	0.5

Section 4. FIRST AND MEASURES

4.1 Description of first aid measures

Inhalation IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for

breathing. Call a physician if symptoms occur.

Skin contact Burns should be treated by a doctor.





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Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Burns from radiation, see doctor.

Ingestion

Contact a doctor if more than an insignificant amount has been swallowed.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation Inhalation of vapours may cause irritation of the respiratory system in very susceptible persons.

4.3 Indication of any immediate medical attention and special treatment needed

Not applicable

Section 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2), powder or diffuse jet of water. In case of major fire: Extinguish fire with

diffuse jet of water or foam.

5.2 Special hazards arising from the substance or mixture

Not applicable

5.3 Advice for fire fighters

Special protective equipment for fire Wear self contained breathing apparatus

fighters

Section 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General ventilation and local fume extraction must be adequate to keep fume concentrations within safe limits. Use respiratory equipment when welding in a confined space. Wear protective clothing and eye protection appropriate to arc welding. Skin contact should be avoided to prevent possible allergic reactions.

6.2 Environmental precautions

Try to prevent the material from entering drains or water courses.

6.3 Methods and material for containment and cleaning up

Not applicable

6.4 Reference to other sections





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For Personal protection see section 8. For Disposal see section 13. For Environmental precautions see section 12. For Precautions for Safe handling see 7.1.

Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Preventive handling precautions Ensure adequate ventilation for the welder and others. Use respiratory equipment when welding in

a confined space. Wear protective clothing and eye protection appropriate to arc welding. Remove

all flammable materials and liquids before welding.

General hygiene Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Store welding consumables inside a room without humidity. Do not store welding consumables directly on the ground or beside walls. Store away from chemical substances like acids which could cause chemical reactions.

7.3 Specific end use(s)

Welding process.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Welding fume component	CAS No.	WEL ² 8hr TWA	STEL ² 15min TWA
Tungsten and compounds (as W)			
Soluble	7440-33-7	1	
Insoluble		5	
Zirconium compounds (as Zr)	7440-67-7	5	10
Thorium compounds (as Th)	7440-29-1		
Nitrogen dioxide (NO ₂)	10102-44-0	0.5 ppm ³	0.95ppm 3
Ozone (O ₃)	10028-15-6	0.2 ppm ⁴	
Nitrogen monoxide (NO)	10102-43-9	0.5ppm³	0.63ppm 3

8.2 Exposure controls

Environmental Exposure Controls - Refer to Section 6 of this SDS

Technical precaution measures General ventilation and local fume extraction must be adequate to keep fume concentrations within safe limits.





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Eye / face protection

Wear eye protection appropriate for welding.

Safety gloves

Skin contact should be avoided to prevent possible allergic reactions.

Other skin protection Respiratory protection Wear body protection which helps to prevent injury from radiation, sparks and electric shock.

Use respiratory equipment when welding in a confined space. Wear protective clothing and eye

protection appropriate to arc welding.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance, colour Grey

Appearance, physical state Rod

Auto-ignition temperature Not applicable

Auto-inflammability Not auto-flammable

Decomposition temperature Not applicable

Evaporation rate Not applicable

Explosive properties Not explosive

Flammability (solid gas) Not applicable

Flash point Not applicable

Form Fast

Initial boiling point and boiling range 5828K

Melting point / Freezing point Not applicable

Odour Odourless

Odour threshold Not applicable

Oxidising properties Not applicable

Partition coefficient: n-octanol / water Not applicable

pH value Not applicable

Relative density Not applicable

Solubility Not applicable

Solubility in water Insoluble

Upper / lower flammability or Not applicable

explosive limits

Vapour density Not applicable

Vapour pressure Not applicable

Viscosity Not applicable





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9	2	Other	info	rmat	ion
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Not applicable

Other

Density

Depending on alloy grade 18.8g/cm³ to19.2g/cm³

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

Not applicable

10.2 Chemical stability

Stable at normal conditions.

10.3 Possibility of hazardous reactions

Not applicable

10.4 Conditions to avoid

None under normal conditions

10.5 Incompatible materials

Not applicable

10.6 Hazardous decomposition products

Welding fumes and gases. Additional fume may arise from coatings and contaminants on the base material.

Welding fume component	CAS No.	Classification (67/548EEC)	CLP (1272/2)	008)	Concentration of classified fume components
Tungsten and its compounds (W)	7440-33-7	-	-	-	>95.8
					0.8 to 4.2
Classification	H phrase	Text			
Acute Tox.:	H302	Harmful if swallowed]
Category 4	H312	Harmful in contact with skin			
	H332	Harmful if inhaled			





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The Classification information above relates to the fume during use

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Conditions to avoid: none in the form supplied

When welding, fumes and gases generated can be dangerous to health.

Acute toxicology Excessive exposures may affect human health, as follows: Aspiration may cause pulmonary oedema

and pneumonitis Short-term overexposure can cause dizziness, nausea and irritation of the nose,

throat or eyes.

Irritation Not applicable

Corrosive effects Not applicable

Sensitisation May cause sensitisation by skin contact

Mutagenicity Not applicable

Carcinogenicity Welding fumes are possibly carcinogenic to humans

Repeated dose toxicity Not applicable
Reproductive toxicity Not applicable

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

The welding process can effect the environment if fume is released directly into the atmosphere.

Acute fish toxicity LC₅₀ Fish 96h:

15.6mg/L (rainbow trout, oncorhynchus mykiss, 28d)

Aluminiumoxide: >100 mg/l Salmo trutta

Amphibians toxicity IC₅₀ Amphibians 72h:

2.9mg/L (toad, gastrophryne carolinensis, 7d)

12.2 Persistence and degradability

Not applicable





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12.3 Bio accumulative potential

No data available

12.4 Mobility in Soil

Not applicable

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

Not applicable

Section 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal considerations Dispose of any product, residue or packing material according to national and local regulations. Spent

; fume extraction filters shall be disposed of as dangerous waste.

Other

Waste code (EWC) 12 01 13 - welding waste

Section 14. TRANSPORT INFORMATION

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class (es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable





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14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Other

Dangerous goods

No

Section 15. REGUATORY INFORMATION

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture.

EU regulations

The product does not need to be labelled in accordance with EC directives or respective national laws.

National regulations

EH40/2005 Workplace exposure limits

The Waste Regulations 2011 No. 988

Local laws and regulations should be carefully observed.

15.2 Chemical safety assessment

Not applicable

Section 16. OTHER INFORMATION

References to key literature and

Regulation (EC) No 1907/2006 of the European Parliament and of the Council, (REACH).

data sources

Regulation (EC) No 1272/2008 of the European Parliament and of the Council.

EH40/2005 Workplace exposure limits.

C&L Inventory database

Annex VI CLP Regulation (EC) 1272/2008

Phrase meaning

H302	Harmful if swallowed
H312	Harmful in contact with skin
H332	Harmful if inhaled

Other

Manufacturer's notes

Read this Safety Data Sheet carefully and become aware of hazards implied and the safety

information.

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