

Version number: 01

Replaces SDS: 2009-11-23

Issued: 2015-02-05

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 All article/part numbers must be listed:

Product/Article	Diameter(mm)	Packaging (kg)	Part Number
MIG WIRE (RL.OF 15.0 KG) 0.8 MM, CHANGZH	0.8	15	YBD1821124
MIG WIRE (RL.OF 15.0 KG) 1.0 MM, CHANGZH	1.0	15	YBD1821123

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

GMAW/GTAW Un-alloyed steel wire electrodes & Rods Classification: AWS SFA 5.18

Use Gas shielded Arc welding

1.3 Details of the supplier of the safety data sheet

Supplier Linde Bangladesh Limited

Street address Corporate Office, 285 Tejgaon Industrial Area

Dhaka-1208

Bangladesh

Telephone +880.2.8870322-27

+880.2.8870336/+880.2.8870329

Email customer.service.bd@linde.com

1.4 Emergency telephone number

Available outside office hours

Emergency phone number

+880.1711.404191

Other

Additional product information

Web site: www.linde-gas.com.bd



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2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1271/2008 [CLP] applicable

2.2 Label elements

Not applicable

2.3 Other hazards

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.



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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 Clas's	Fe %	C %	Mn %	Si %	Cu ¹ %	Ti %	Zr %	AI %
CAS Number	7439-89-6	7440-44- 0	7439-96-5	7440-21-3	7440-50-8	7440-32- 6	7440-67- 7	7429-90-5
ER70S-2	>97	0.07	0.90 to 1.40	0.40 to 0.70	<0.5	0.05 to 0.15	0.02 to 0.12	0.05 to 0.15
ER70S-3	>97	0.06 to 0.15	0.90 to 1.40	0.45 to 0.70	<0.5			
ER70S-4	>97	0.07 to 0.15	1.00 to 1.50	0.65 to 0.85	<0.5			
ER70S-5	>97	0.07 to 0.19	0.90 to 1.40	0.30 to 0.60	<0.5			
ER70S-6	>96	0.07 to 0.15	1.40 to 1.85	0.80 to 1.15	<0.5			
ER70S-7	>96	0.07 to 0.15	1.50 to 2.00	0.50 to 0.80	<0.5			

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	$\label{thm:lem:index} IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for a complex of the complex$
	breathing. Call a physician if symptoms occur.
Skin contact	Burns should be treated by a doctor.
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



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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

Personal protection see section 8 and for disposal see section 13. Environmental precautions, paragraph 12. See also section 7 Precautions for safe handling.



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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
Iron oxide fume (as Fe)	1309-37-1	5	
Manganese and its inorganic compounds (as Mn)	7439-96-5 and others	0.5	
Chromium VI compounds (as Cr)	1333-82-0	0.05	
Chromium III compounds (as Cr)	1308-38-9	0.5	
Nickel and its inorganic compounds Water soluble Water insoluble	1313-99-1	0.1 0.5	
Copper Fume	7440-50-8	0.2	
Nitrogen dioxide	10102-44-0	0.5□	0.95□
Nitrogen monoxide	10102-43-9	0.5□	0.63□
Ozone	10028-15-6		0.2ppm ₉
Carbon dioxide	124-38-9	5000ppm	15000pp m
Carbon monoxide	630-08-0	30ppm	200ppm

[□] Figures in these columns are examples only. Each RBU must insert their own values according to their own regulations. For example EH40 in the UK, ACGIH in the USA, NOHSC in SPR. LOCAL VARIATIONS MAY APPLY.

3 As recommended by the MAK Commission based on scientific experience and is not established law.



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Aluminium Inhalable Respirable dust	1344-28-1	10 4	
Zirconium compounds	7440-67-7	5	10

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.
Eye / face protection	Wear eye protection appropriate for welding.
Safety gloves	Skin contact should be avoided to prevent possible allergic reactions.
Other skin protection	Wear body protection which helps to prevent injury from radiation, sparks and electric shock.
Respiratory protection	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	Generally grey or coppered coloured when coated
Appearance, physical state	Metal wire or 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	Not applicable
Melting point / Freezing point	Not applicable
Odour	Odourless
Odour threshold	Not applicable
Oxidising properties	Not applicable
Partition coefficient: n-octanol / water	Not applicable



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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

9.2 Other information

Not applicable

Other

Density 7.98g/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.



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Welding fume component	CAS No.	Classification (67/548EEC)	CLP (1272/2008)		Concentration of classified fume components
Aluminium oxide (Al)	1344- 28-1	-	-	-	<0.1
Barium (Ba)	7440- 39-3	-	-	-	<0.1
Bismuth oxide (Bi)	12640- 40-3	-	-	-	<0.1
Calcium (Ca)	1305- 78-8	-	-	-	<0.1 to 0.2
Cobalt oxide	1307-	R22: Harmful if swallowed	Acute tox 4 (oral)	H302	<0.1
(Co)	96-6	R43: May cause sensitisation by contact	Skin sens. 1	H317	
Chromium III compounds (as Cr)	24613- 89-6	R45: May cause cancer R35: Causes severe burns R43: May cause sensitisation by skin contact	Carc. 1B Skin Corr. 1A Skin Sens. 1	H350 H314 H317	<0.1
Copper oxide (Cu)	1317- 38-0	-	-	-	0.3 to 1.1
Iron oxide (Fe)	1332- 37-2	-	-	-	45.8 to 61.4
Potassium (K)	7440- 09-7	R34: Causes burns	Skin Corr. 1B	H314	<0.1
Lithium (Li)	7439- 93-2	R34: Causes burns	Skin Corr. 1B	H314	<0.1
Magnesium oxide (Mg)	1309- 48-4	-	-	-	<0.1
Manganese (Mn)	7439- 96-5	-	-	-	6.3 to 15.0



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Molybdenum (Mo)	7439- 98-7	Molybdenum trioxide R36/37: Irritating to eyes and respiratory system R40: Limited evidence of carcinogenic effect	Molybdenum trioxide Carc. 2 Eye Irrit. 2 STOT SE 3	H351 H319 H335	<0.1
Sodium (Na)	7440- 23-5	R34: Causes burns	Skin Corr. 1B	H314	<0.1
		R40: Limited evidence of	Carc. 2	H351	<0.1
Nickel (Ni)	7440- 02-0	carcinogenic effect R43: May cause sensitisation by skin contact R48/23: Toxic danger of serious damage to health by prolonged exposure through inhalation R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment	Skin sens 1 STOT RE 1	H317	
Lead (Pb)	7439- 92-1	-	-	-	<0.1
Silicon (Si)	7440- 21-3	-	-	-	1.3 to 4.8
Titanium dioxide (Ti)	13463- 67-7	-	-	-	<0.1
Vanadium (V)	7440- 62-2	-	-	-	<0.1
Zinc (Zn)	7440- 66-6	-	-	-	<0.1 to 0.7



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Fume analysis: wt %

Al 0.1 max

Ca 0.1 to 0.2

Fe 45.8 t0 61.4

Mn 6.3 to 15

Si 1.3 to 4.8

Zn 0.1 to 0.7

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. Residues from welding consumables could degrade and accumulate into soils and ground water.

12.2 Persistence and degradability

Not applicable

12.3 Bio accumulative potential



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Not 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

None

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

14.6 Special precautions for user

Not applicable



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14.7 Transport in bulk according None

Not applicable

Other

Dangerous goods No

Section 15. REGULATORY 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 None

15.2 Chemical safety assessment

Not applicable

Section	16	OTHER	INFORMAT	ION
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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.

C&L Inventory database

Annex VI CLP Regulation (EC) 1272/2008

Other

Manufacturer's notes Read this Safety Data Sheet carefully and become aware of hazards implied and the safety

information.

End of Document