

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Low Alloy Electrodes

Other means of identification : E7010-A1, E7016-A1, E7018-A1, E8016-B1, E8016-B2, E8016-B6, E8016-B8, E8018-B2,

E8018-B6^a, E8018-B8^b, E8018-C1, E8016-G,E8018-C2, E8018-C3,E8018-G,E7018M, E8018 C1, E8045 P2 H4R.E9018-B3, E9018-B9, E10018-D2,E10018M,E11018M,E12018-

G,E12018M,E9018-D1

^a Similar to former class E502 (AWS A5.4) ^b Similar to former class E505 (AWS A5.4)

AWS Specifications : A5.5

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

Use of the substance/mixture : For welding consumables and related products

1.3. Details of the supplier of the safety data sheet

Raajratna Electrodes Pvt.Ltd.

11, Sona Roopa,

C.G. Road, Navrangpura, Ahmedabad-380 006. (India)

raajcare@raajratnaelectrodes.com

1.4. Emergency telephone number

Emergency number : 91 7926431543

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute Tox. 4 (Oral) H302 Skin Irrit. 2 H315 Eye Irrit. 2A H319 Skin Sens. 1 H317 Carc. 1B H350 STOT RE 1 H372 Aquatic Acute 1 H400

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)







Danger

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H302 - Harmful if swallowed H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation

H350 - May cause cancer

H372 - Causes damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust/fume/gas/mist/vapors/spray P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P272 - Contaminated work clothing should not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

17/11/2014 EN (English) Page 1



Safety Data Sheet

Lenses, if present and easy to do. Continue rinsing

P308+P313 - IF exposed or concerned: Get medical advice/attention

P314 - Get medical advice and attention if you feel unwell

P330 - If swallowed, rinse mouth

P332+P313 - If skin irritation occurs: Get medical advice/attention

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P337+P313 - If eye irritation persists: Get medical advice/attention

P362 - Take off contaminated clothing and wash before reuse

P362+P364 - Take off contaminated clothing and wash it before reuse

P391 - Collect spillage

P405 - Store locked up

P501 - Dispose of contents/container in accordance with local/regional/national/international

regulations.

Other hazards

No additional information available

Unknown acute toxicity (GHS-US) 2.4.

No data available

SECTION 3: Composition/information on ingredients

Substances 3.1.

Not applicable

Full text of H-phrases: see section 16

3.2. **Mixture**

Name	Product identifier	%	GHS-US classification
Iron (Fe)	(CAS No) 7439-89-6	55 - 70	Acute Tox. 4 (Oral), H302
Limestone (CaCO ₃)	(CAS No) 1317-65-3	5 - 12	Not classified
Chromium (Cr)	(CAS No) 7440-47-3	<= 10.5	Not classified
Calcium fluoride (CaF ₂)	(CAS No) 7789-75-5	Trace	Acute Tox. Not classified (Oral)
Sodium silicate (Na ₂ O-NSiO ₂)	(CAS No) 1344-09-8	<= 5	Acute Tox. 4 (Oral), H302
Nickel (Ni)	(CAS No) 7440-02-0	0 - 3.8	Skin Sens. 1, H317 Carc. 1B, H350 STOT RE 1, H372
Titanium dioxide (TiO ₂)	(CAS No) 13463-67-7	<= 3	Carc. 2, H351
Potassium silicate (K ₂ O ₃ SiO ₃)	(CAS No) 1312-76-1	<= 3	Acute Tox. 4 (Oral), H302
Potassium titanate (KTiO ₃)	(CAS No) 12030-97-6	<= 3	Not classified
Manganese (Mn)	(CAS No) 7439-96-5	0.6 - 2.25	Not classified
Magnesium carbonate (MgCO ₃)	(CAS No) 546-93-0	<= 2	Not classified
Trisodium hexafluoroaluminate (Na ₃ AIF ₆)	(CAS No) 15096-52-3	<= 2	Acute Tox. 4 (Inhalation), H332 STOT RE 1, H372 Aquatic Chronic 2, H411
Feldspar ((K,Na) AlSi ₃ O ₈ - Ca(Na) Al ₂ Si ₂ O ₈)	(CAS No) 68476-25-5	<= 2	Not classified
Molybdenum (Mo)	(CAS No) 7439-98-7	0.25 - 1.2	Not classified
Aluminum oxide (Al ₂ O3)	(CAS No) 1344-28-1	<= 1	Not classified
Silicon (Si)	(CAS No) 7440-21-3	0.3 - 1	Not classified
Potassium hydroxide (KOH)	(CAS No) 1310-58-3	<= 0.5	Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314
Carbon (C)	(CAS No) 7440-44-0	0.05 - 0.35	Not classified
Sulfur (S)	(CAS No) 7704-34-9	0.01 - 0.03	Skin Irrit. 2, H315

SECTION 4: First aid measures

Description of first aid measures

: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give First-aid measures after inhalation

oxygen. Get medical attention.

First-aid measures after skin contact : Flush with water for at least 15 minutes. Seek medical attention if irritation develops or persists. First-aid measures after eye contact

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if discomfort persists.

First-aid measures after ingestion : Do NOT induce vomiting. Get immediate medical attention.

EN (English) 2/11 17/11/2014



Safety Data Sheet

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation

: Short-term (acute) overexposure to the gases, fumes, and dusts may include irritation of the eyes, lungs, nose, and throat. Some toxic gases associated with welding may cause pulmonary edema, asphyxiation, and death.

Acute overexposure may include signs and symptoms such as watery eyes, nose and throat irritation, headache, dizziness, difficulty in breathing, frequent coughing, or chest pain. The presence of chromium/chromate in fume can cause irritation of nasal membranes and skin. The presence of nickel compounds in fume can cause metallic taste, nausea, tightness of chest, fever, and allergic reaction. Excessive inhalation or ingestion of manganese can produce manganese poisoning. Overexposure to manganese compounds may affect the central nervous system, symptoms of which are languor, sleepiness, muscular weakness, emotional disturbances, and spastic gait resembling Parkinsonism. These symptoms can become progressive and permanent if not treated. Excessive inhalation of fumes may cause "Metal Fume Fever" with Flu-like symptoms such as chills, fever, body aches, vomiting, sweating, etc.

Symptoms/injuries after skin contact : Dusts may cause irritation. Symptoms/injuries after eye contact : Causes eye irritation.

Symptoms/injuries after ingestion : Not an anticipated route of exposure during normal product handling. May be harmful if ingested.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable. Explosion hazard : None known.

5.3. Advice for firefighters

Protection during firefighting : Firefighters should wear full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : No special measures required.

Methods for cleaning up : Attempt to reclaim the product, if this is possible.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid generating dust. Avoid inhaling welding fumes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : No special storage necessary.

7.3. Specific end use(s)

For welding consumables and related products

17/11/2014 EN (English) 3/11



Safety Data Sheet

Silicon (7440-21-3)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
Manganese (7439-96-5	;)	
USA ACGIH	ACGIH TWA (mg/m³)	0.1 mg/m³
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	5 mg/m³
Aluminum oxide (1344	i-28-1)	
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
Titanium dioxide (1346	63-67-7)	
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m ³
Limestone (1317-65-3)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
Nickel (7440-02-0)		
USA ACGIH	ACGIH TWA (mg/m³)	1.5 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³
Chromium (7440-47-3)		
USA ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³
Molybdenum (7439-98-7)		
USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m³
Potassium hydroxide (1310-58-3)		
USA ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³
Magnesium carbonate (546-93-0)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³

Exposure controls

: Local exhaust and general ventilation must be adequate to meet exposure standards. Appropriate engineering controls

Hand protection : Wear welding gloves.

Wear helmet or face shield with filter lens of appropriate shade number. See ANSI/ASC Z49.1 Eye protection

Section 4.2. Provide protective screens and flash goggles, if necessary, to shield others.

: Wear head and body protection, which help to prevent injury from radiation, sparks, flame and Skin and body protection

electrical shock. See ANSI Z49.1. At a minimum this includes welder's gloves and a protective face shield, and may include arm protectors, aprons, hats, shoulder protection, as well as dark substantial clothing. Train the employee not to touch live electrical parts and to insulate him/herself from work and ground. Welders should not wear short sleeve shirts or short pants.

Respiratory protection : If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory

protection should be worn.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid Appearance Rods or wire Color : Metallic

Odor No data available

EN (English) 4/11 17/11/2014



Safety Data Sheet

Odor threshold : No data available : No data available pΗ Relative evaporation rate (butylacetate=1) No data available Melting point No data available Freezing point No data available Boiling point No data available Flash point : No data available No data available Self ignition temperature Decomposition temperature No data available Flammability (solid, gas) No data available Vapour pressure No data available Relative vapour density at 20 °C : No data available Relative density No data available Solubility No data available Log Pow No data available Log Kow No data available Viscosity, kinematic No data available No data available Viscosity, dynamic Explosive properties No data available Oxidising properties No data available Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

None.

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products

Welding fumes and gases cannot be classified simply. The composition and quantity of both are dependent upon the metal being welded, the process, procedure and welding consumables used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coating on the metal being welded (i.e. paint, painting, galvanizing), the number of welders, the volume of the work area, the quality and the amount of ventilation, the position of the welders head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from the cleaning and degreasing activities).

When an electrode is consumed, the fume and gas decomposition products generated are different in percent and form from the ingredients listed in Section 3. Fume and gas decomposition, and not the ingredients in the electrode, are important. The concentration of a given fume or gas component may decrease or increase by many times the original concentration. Also, new compounds not in the electrodes may form. Decomposition products of normal operation include those originating from the volatilization, reaction or oxidation of the materials shown in Section 3, plus those from the base metal coating, etc., as noted above. Reasonable expected fume constituents of this product would include: Complex oxides of iron, manganese, silicon, chromium, nickel, columbium, molybdenum, copper, carbon dioxide, carbon monoxide, ozone and nitrogen oxides. Some products will also contain antimony, barium, molybdenum, aluminum, columbium, magnesium, strontium, tungsten, and or zirconium. Fume limit for chromium, nickel and or manganese may be reached before limit of 5 mg/m3 of general welding fumes is reached.

Gaseous reaction products may include carbon monoxide and carbon dioxide. Ozone and nitrogen oxides may be formed by the radiation from the arc. Determine the composition and quantity of fumes and gases to which workers are exposed by taking an air sample from inside the welder's helmet if worn or in the worker's breathing zone. Improve ventilation if exposures are not below limits. See ANSI/AWS F1.1, F1.3 and F1.5, available from the American Welding Society, 550 N.W. LeJeune Road, Miami, FL 33126.

17/11/2014 EN (English) 5/11



Nickel (7440-02-0) IARC group

Low Alloy Electrodes Safety Data Sheet

11.1. Information on toxicological effects

Acute toxicity	: Harmful if swallowed.

Acute toxicity	. Hamilui ii Swalloweu.
Low Alloy Coated Electrode	
ATE (oral)	500.000 mg/kg bodyweight
Iron (7439-89-6)	
LD50 oral rat	984 mg/kg
ATE (oral)	984.000 mg/kg
Silicon (7440-21-3)	
ATE (oral)	3160.000 mg/kg
Manganese (7439-96-5)	
ATE (oral)	900000.000 mg/kg
Aluminum oxide (1344-28-1)	
LD50 oral rat	> 5000 mg/kg
	> 5000 mg/kg
Titanium dioxide (13463-67-7)	40000 #
LD50 oral rat	> 10000 mg/kg
Nickel (7440-02-0)	
LD50 oral rat	> 9000 mg/kg
Sodium silicate (1344-09-8)	
LD50 oral rat	1153 mg/kg
ATE (oral)	1153.000 mg/kg
Sulfur (7704-34-9)	
LD50 oral rat	> 3000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 9.23 mg/l/4h
Calcium fluoride (CaF2) (7789-75-5)	
LD50 oral rat	4250 mg/kg
ATE (oral)	4250.000 mg/kg bodyweight
Potassium silicate (1312-76-1)	
LD50 oral rat	1300 mg/kg
ATE (oral)	1300.000 mg/kg bodyweight
Potassium hydroxide (1310-58-3)	
LD50 oral rat	214 mg/kg
Carbon (7440-44-0)	
LD50 oral rat	> 10000 mg/kg
Trisodium hexafluoroaluminate (15096-52-3)	
LD50 oral rat	> 5 g/kg
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer.
Titanium dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans
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17/11/2014 EN (English) 6/11

2B - Possibly carcinogenic to humans



Safety Data Sheet

Nickel (7440-02-0)

National Toxicology Program (NTP) Status 3 - Reasonably anticipated to be Human Carcinogen

Chromium (7440-47-3)

IARC group 3 - Not classifiable
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Nickel (7440-02-0)	
LC50 fishes 1	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
EC50 Daphnia 1	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	0.18 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
LC50 fish 2	1.3 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 Daphnia 2	1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 other aquatic organisms 2	0.174 - 0.311 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])
Sodium silicate (1344-09-8)	
LC50 fishes 1	301 - 478 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
LC50 fish 2	3185 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
Sulfur (7704-34-9)	
LC50 fishes 1	866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
LC50 fish 2	< 14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
Potassium silicate (1312-76-1)	
LC50 fishes 1	301 - 478 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
LC50 fish 2	3185 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Sodium silicate (1344-09-8)	
BCF fish 1	(no bioaccumulation expected)
Potassium silicate (1312-76-1)	
BCF fish 1	(no bioaccumulation expected)
Potassium hydroxide (1310-58-3)	
Log Pow	0.65

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

17/11/2014 EN (English) 7/11



Safety Data Sheet

In accordance with DOT / ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

Not a dangerous good in sense of transport regulations

14.2. UN proper shipping name

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Iron (7439-89-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Silicon (7440-21-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Manganese (7439-96-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting

Aluminum oxide (1344-28-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 1.0 % (fibrous forms)

Titanium dioxide (13463-67-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Limestone (1317-65-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Nickel (7440-02-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 0.1 %

Sodium silicate (1344-09-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sulfur (7704-34-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Chromium (7440-47-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 1.0 %

Molybdenum (7439-98-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Calcium fluoride (CaF2) (7789-75-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Potassium silicate (1312-76-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Potassium titanate (12030-97-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Potassium hydroxide (1310-58-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

17/11/2014 EN (English) 8/11



Safety Data Sheet

Carbon (7440-44-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Magnesium carbonate (546-93-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Trisodium hexafluoroaluminate (15096-52-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Feldspar (68476-25-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. US State regulations

Titanium dioxide (1346	3-67-7)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes				
Nickel (7440-02-0)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes				

Silicon (7440-21-3)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Manganese (7439-96-5)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Aluminum oxide (1344-28-1)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Titanium dioxide (13463-67-7)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Limestone (1317-65-3)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Nickel (7440-02-0)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

17/11/2014 EN (English) 9/11



Safety Data Sheet

Sulfur (7704-34-9)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Chromium (7440-47-3)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Molybdenum (7439-98-7)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Potassium hydroxide (1310-58-3)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Magnesium carbonate (546-93-0)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List

Trisodium hexafluoroaluminate (15096-52-3)

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Other information

: We believe that the information contained herein is current as of the date of this SDS. As the condition or methods of use are beyond Raajratna Electrodes Pvt.Ltd. control, Raajratna Electrodes Pvt.Ltd. Does not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without any warranty, expressed or implied, regarding the accuracy of the information, the hazard connected with the use of this material or the results to be obtained for use thereof. It is the user's obligation to determine the conditions of safe use of these products.

Full text of H-phrases:

Acute toxicity (oral), Category 3
Acute toxicity (inhal.), Category 4
Acute toxicity (oral), Category 4
Acute toxicity (oral) Not classified
Hazardous to the aquatic environment — AcuteHazard, Category 1
Hazardous to the aquatic environment — Chronic Hazard, Category 2
Carcinogenicity, Category 1B
Carcinogenicity, Category 2
Serious eye damage/eye irritation, Category 2A
Skin corrosion/irritation, Category 1A
Skin corrosion/irritation, Category 2
Sensitisation — Skin, category 1
Specific target organ toxicity — Repeated exposure, Category 1
Toxic if swallowed
Harmful if swallowed
Causes severe skin burns and eye damage
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation

17/11/2014 EN (English) 10/11



Low Alloy Electrodes Safety Data Sheet

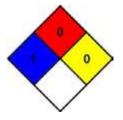
H332	Harmful if inhaled
H350	May cause cancer
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given. NFPA health hazard

NFPA fire hazard : 0 - Materials that will not burn.

: 0 - Normally stable, even under fire exposure conditions, NFPA reactivity

and are not reactive with water.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard Physical : 0 Minimal Hazard

17/11/2014 EN (English) 11/11