Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Revision Date: 11/16/2015 Date of issue: 09/24/2015

SECTION 1: IDENTIFICATION

Product Identifier 1.1.

Product Form: Mixture

Product Name: KT 6010, 6011, 6013 Electrode

Synonyms: Coated Metal Alloy

Other means of identification: AWS A5.1 **Intended Use of the Product** 1.2.

Use of the substance/mixture: No use is specified.

Name, Address, and Telephone of the Responsible Party 1.3.

Company

K-T Industries, Inc

3112 Northwest Boulevard Sheldon, Iowa 51201

T: 712-324-5361

Emergency Telephone Number 1.4.

Emergency Number : 712-324-5361

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US classification

Not classified

2.2. **Label Elements**

GHS-US Labeling

No labeling applicable

2.3. **Other Hazards**

Under normal conditions of use and handling in the wire form, harmful substances cannot be released, nor is the wire considered flammable. Much of the information provided in this SDS is for situations of use in which hazardous exposures may occur, such as in welding applications or for metals in powdered form. Avoid inhalation of metal dusts and fumes. May cause an influenza-like illness. Avoid skin and eye contact with dusts to prevent mechanical irritation. User-generated dust is easily ignited and difficult to extinguish. Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

Version: 1.0

Unknown Acute Toxicity (GHS-US) 2.4.

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. **Substance**

Not applicable

3.2. Mixture

Name	Product Identifier	%	GHS-US classification
Iron oxide (Fe2O3)	(CAS No) 1309-37-1	70 - 90	Comb. Dust
Titanium dioxide	(CAS No) 13463-67-7	10	Carc. 2, H351
Aluminum oxide	(CAS No) 1344-28-1	5	Not classified
Cellulose	(CAS No) 9004-34-6	5	Comb. Dust
Manganese	(CAS No) 7439-96-5	5	Comb. Dust
Mica	(CAS No) 12001-26-2	5	Not classified
Carbonic acid, magnesium salt (1:1)	(CAS No) 546-93-0	2	Not classified
Aluminum oxide silicate (Al2O5Si)	(CAS No) 12141-46-7	1	Not classified
Limestone	(CAS No) 1317-65-3	1	Not classified
Potassium silicate	(CAS No) 1312-76-1	1	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335

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Sodium silicate	(CAS No) 1344-09-8	1	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Potassium titanate	(CAS No) 12030-97-6	1	Not classified
Silicic acid (H4SiO4), zirconium(4+) salt (1:1)	(CAS No) 10101-52-7	1	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists. Cool skin rapidly with cold water after contact with molten product. Removal of solidified molten material from skin requires medical assistance.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention. Protect skin and eyes from contact with molten material. Removal of solidified molten material from the eyes requires medical assistance.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

Symptoms/Injuries: Welding, cutting, or processing this material may release dust or fumes that are hazardous.

Symptoms/Injuries After Inhalation: During processing, the most significant route of exposure is by the inhalation (breathing) of fumes. If fumes are inhaled, they can cause a condition commonly known as metal fume fever with symptoms which resemble influenza; Symptoms may be delayed 4-12 hours and begin with a sudden onset of thirst, and a sweet, metallic or foul taste in the mouth. Other symptoms may include upper respiratory tract irritation accompanied by coughing and a dryness of the mucous membranes, lassitude and a generalized feeling of malaise. Fever, chills, muscular pain, mild to severe headache, nausea, occasional vomiting, exaggerated mental activity, profuse sweating, excessive urination, diarrhea and prostration may also occur.

Symptoms/Injuries After Skin Contact: Contact with hot, molten metal will cause thermal burns. Removal of solidified molten material from skin requires medical assistance. Mechanical damage via flying particles and chipped slag is possible.

Symptoms/Injuries After Eye Contact: During metal processing, dusts caused from milling and physical alteration will likely cause eye irritation. Fumes from thermal decomposition or molten material will likely be irritating to the eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: This product is intended for use in ARC welding. During this process UV rays irritate the superficial corneal epithelium, causing inhibition of mitosis, production of nuclear fragmentation, and loosening of the epithelial layer. Under experimental conditions in animals, phototoxic effects have been demonstrated at all levels of the cornea, including the stroma and endothelium. Aluminum: Inhalation of finely divided aluminum powder may cause pulmonary fibrosis. Manganese: Chronic exposure can cause inflammation of the lung tissue, scarring the lungs (pulmonary fibrosis). Chronic exposure to excessive manganese levels can lead to a variety of psychiatric and motor disturbances, termed manganism. Inhalation of iron oxide fumes undergoing decomposition may cause irritation and flu-like symptoms; otherwise iron oxide is not hazardous.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use class D extinguishing media on fines, dust, or molten metal. Use water spray on chips and fines.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures. Small chips, turnings, dust and fines from processing may be readily ignitable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

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5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Prevent entry of dusts, chips and ribbon to sewers and public waters. Notify authorities if any material enters sewers or public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Cool molten material to limit spreading. Use only non-sparking tools.

6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. See Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Welders are exposed to a range of fumes and gases. Fume particles contain a wide variety of oxides and salts of metals and other compounds, which are produced mainly from electrodes, filler wire and flux materials. Fumes from the welding of stainless-steel and other alloys contain nickel compounds and chromium [VI] and [III]. Ozone is formed during most electric arc welding, and exposures can be high in comparison to the exposure limit, particularly during metal inert gas welding of aluminum. Oxides of nitrogen are found during manual metal arc welding and particularly during gas welding. Welders who weld painted mild steel can also be exposed to a range of organic compounds produced by pyrolysis.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Products: Strong acids, strong bases, strong oxidizers. Corrosive substances in contact with metals may produce flammable hydrogen gas.

Special Rules on Packaging: Store in a closed container.

7.3. Specific End Use(s)

No use is specified.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Limestone (1	317-65-3)	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust)
		5 mg/m³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust)
		5 mg/m³ (respirable fraction)

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Carbonic acid	l, magnesium salt (1:1) (546-93-0)	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust)
USA NIUSH	NOSH KEL (TWA) (Hig/III)	5 mg/m³ (respirable dust)
	:1 (4244.22.4)	3 hig/iii (respirable dust)
	kide (1344-28-1)	40 / 3
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust)
		5 mg/m³ (respirable fraction)
Cellulose (90	· · · · · · · · · · · · · · · · · · ·	
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust)
		5 mg/m³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust)
		5 mg/m³ (respirable fraction)
Manganese (
USA ACGIH	ACGIH TWA (mg/m³)	0.02 mg/m³ (respirable fraction)
		0.1 mg/m³ (inhalable fraction)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1 mg/m³ (fume)
USA NIOSH	NIOSH REL (STEL) (mg/m³)	3 mg/m³
USA IDLH	US IDLH (mg/m³)	500 mg/m ³
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	5 mg/m³ (fume)
Mica (12001-	26-2)	
USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	3 mg/m³ (containing <1% Quartz-respirable dust)
USA IDLH	US IDLH (mg/m³)	1500 mg/m³ (containing <1% quartz)
Titanium dio	xide (13463-67-7)	
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA IDLH	US IDLH (mg/m³)	5000 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust)
Iron oxide (Fo	e2O3) (1309-37-1)	
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³ (respirable fraction)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m³ (dust and fume)
USA IDLH	US IDLH (mg/m³)	2500 mg/m³ (dust and fume)
USA OSHA	OSHA PEL (TWA) (mg/m³)	10 mg/m³ (fume)
		15 mg/m³ (total dust)
		5 mg/m³ (respirable fraction)
*=	mits for Additional Compounds Which May	D. F

*Exposure Limits for Additional Compounds Which May Be Formed During Processing.

Ozone (1002	8-15-6)	<u> </u>
USA ACGIH	ACGIH TWA (ppm)	0.05 ppm (heavy work)
		0.08 ppm (moderate work)
		0.10 ppm (light work)
		0.20 ppm (heavy, moderate or light workloads, <=2 hours)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	0.2 mg/m ³
USA NIOSH	NIOSH REL (ceiling) (ppm)	0.1 ppm
USA IDLH	US IDLH (ppm)	5 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	0.2 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	0.1 ppm
Nitrogen dio	xide (10102-44-0)	
USA ACGIH	ACGIH TWA (ppm)	0.2 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (STEL) (mg/m³)	1.8 mg/m³

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USA NIOSH	NIOSH REL (STEL) (ppm)	1 ppm
USA IDLH	US IDLH (ppm)	20 ppm
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	9 mg/m³
USA OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm
Nitrogen mo	noxide (10102-43-9)	
USA ACGIH	ACGIH TWA (ppm)	25 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m³)	30 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	25 ppm
USA IDLH	US IDLH (ppm)	100 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	30 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	25 ppm

8.2. **Exposure Controls**

Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.









Materials for Protective Clothing

Hand Protection Eye Protection

Relative Density

: Chemically resistant materials and fabrics.

Wear protective gloves.

: Chemical safety goggles. Welders should wear goggles or safety glasses with side shields that comply with ANSI Z87.1 under welding helmets and always wear goggles or other suitable eye protection when gas welding or oxygen cutting.

Skin and Body Protection Respiratory Protection

: Wear suitable protective clothing.

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory

protection.

Other Information : When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties 9.1.

Physical State

Appearance Welding wire is a solid metal, shaped as wire of various diameters

: No data available Odor : No data available **Odor Threshold** : No data available **Evaporation Rate** No data available : No data available **Melting Point Freezing Point** : No data available : No data available **Boiling Point Flash Point** : No data available **Auto-ignition Temperature** : No data available : No data available **Decomposition Temperature**

Flammability (solid, gas) : No data available **Vapor Pressure** : No data available Relative Vapor Density at 20 °C : No data available

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: No data available

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Solubility: No data availablePartition Coefficient: N-Octanol/Water: No data availableViscosity: No data available

9.2. Other InformationNo additional information available

SECTION 10: STABILITY AND REACTIVITY

- **10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- **10.2.** Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
- **10.3.** Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
- **10.4.** Conditions to Avoid: Incompatible materials.
- **10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. Hazardous Decomposition Products: Under conditions of fire this material may produce: Toxic fumes. Metal oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

Potassium silicate (1312-76-1)		
LD50 Oral Rat	1300 mg/kg	
Sodium silicate (1344-09-8)		
LD50 Oral Rat	3400 mg/kg	
Carbonic acid, magnesium salt (1:1) (546-93-0)		
LD50 Oral Rat	> 2000 mg/kg	
Aluminum oxide (1344-28-1)		
LD50 Oral Rat	> 15900 mg/kg	
LC50 Inhalation Rat	> 2.3 mg/l/4h	
Cellulose (9004-34-6)		
LD50 Oral Rat	> 5000 mg/kg	
LD50 Dermal Rabbit	> 2000 mg/kg	
LC50 Inhalation Rat	> 5800 mg/m³ (Exposure time: 4 h)	
Manganese (7439-96-5)		
LD50 Oral Rat	> 2000 mg/kg	
LC50 Inhalation Rat	> 5.14 mg/l/4h	
Titanium dioxide (13463-67-7)		
LD50 Oral Rat	> 10000 mg/kg	
Iron oxide (Fe2O3) (1309-37-1)		
LD50 Oral Rat	> 10000 mg/kg	

Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Not classified
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Titanium dioxide (13463-67-7)	
IARC group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Iron oxide (Fe2O3) (1309-37-1)	
IARC group	3

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

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Symptoms/Injuries After Inhalation: During processing, the most significant route of exposure is by the inhalation (breathing) of fumes. If fumes are inhaled, they can cause a condition commonly known as metal fume fever with symptoms which resemble influenza; Symptoms may be delayed 4-12 hours and begin with a sudden onset of thirst, and a sweet, metallic or foul taste in the mouth. Other symptoms may include upper respiratory tract irritation accompanied by coughing and a dryness of the mucous membranes, lassitude and a generalized feeling of malaise. Fever, chills, muscular pain, mild to severe headache, nausea, occasional vomiting, exaggerated mental activity, profuse sweating, excessive urination, diarrhea and prostration may also occur.

Symptoms/Injuries After Skin Contact: Contact with hot, molten metal will cause thermal burns. Removal of solidified molten material from skin requires medical assistance. Mechanical damage via flying particles and chipped slag is possible.

Symptoms/Injuries After Eye Contact: During metal processing, dusts caused from milling and physical alteration will likely cause eye irritation. Fumes from thermal decomposition or molten material will likely be irritating to the eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: This product is intended for use in ARC welding. During this process UV rays irritate the superficial corneal epithelium, causing inhibition of mitosis, production of nuclear fragmentation, and loosening of the epithelial layer. Under experimental conditions in animals, phototoxic effects have been demonstrated at all levels of the cornea, including the stroma and endothelium. Aluminum: Inhalation of finely divided aluminum powder may cause pulmonary fibrosis. Manganese: Chronic exposure can cause inflammation of the lung tissue, scarring the lungs (pulmonary fibrosis). Chronic exposure to excessive manganese levels can lead to a variety of psychiatric and motor disturbances, termed manganism. Inhalation of iron oxide fumes undergoing decomposition may cause irritation and flu-like symptoms; otherwise iron oxide is not hazardous.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Not classified.

301 - 478 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
3185 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
301 - 478 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
3185 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
> 100 mg/l
> 100 mg/l
> 100 mg/l
> 50 mg/l
3.6 mg/l (Exposure time: 96h; Species: Oncorhynchus mykiss)

12.2. Persistence and Degradability

KT 6010, 6011, 6013 Electrode	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

KT 6010, 6011, 6013 Electrode	
Bioaccumulative Potential	Not established.
Potassium silicate (1312-76-1)	
BCF fish 1	(no bioaccumulation expected)
Sodium silicate (1344-09-8)	
BCF fish 1	(no bioaccumulation expected)

12.4. Mobility in Soil

No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

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Additional Information: Recycle where possible and/or dispose of spent material such as metals and metal-bearing waste and submerged arc welding (SAW) flux/slag appropriately.

Ecology – Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT Not regulated for transport
14.2. In Accordance with IMDG Not regulated for transport
14.3. In Accordance with IATA Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Aluminum oxide silicate (Al2	2O5Si) (12141-46-7)
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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

Potassium silicate (1312-76-1)

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

Sodium silicate (1344-09-8)

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

Silicic acid (H4SiO4), zirconium(4+) salt (1:1) (10101-52-7)

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

Carbonic acid, magnesium salt (1:1) (546-93-0)

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

Aluminum oxide (1344-28-1)

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

Subject to reporting requirements of United States SARA Section 313

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

Cellulose (9004-34-6)

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

Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting 1.0

Titanium dioxide (13463-67-7)

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

SARA Section 311/312 Hazard Classes Delayed (chronic) health hazard

Iron oxide (Fe2O3) (1309-37-1)

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

15.2 US State Regulations

Titanium	diovido	112462	67 71

U.S. - California - Proposition 65 - Carcinogens List

WARNING: This product contains chemicals known to the State of California to cause cancer.

Limestone (1317-65-3)

- 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

Carbonic acid, magnesium salt (1:1) (546-93-0)

U.S. - Massachusetts - Right To Know List

Aluminum oxide (1344-28-1)

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

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

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Cellulose (9004-34-6)

- 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

Manganese (7439-96-5)

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

Mica (12001-26-2)

- 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

Titanium dioxide (13463-67-7)

- 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

Iron oxide (Fe2O3) (1309-37-1)

- 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

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date

: 11/16/2015

Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR

1910.1200.

GHS Full Text Phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4	
Carc. 2	Carcinogenicity Category 2	
Comb. Dust	Combustible Dust	
Eye Dam. 1	Serious eye damage/eye irritation Category 1	
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B	
Met. Corr. 1	Corrosive to metals Category 1	
Skin Corr. 1B	Skin corrosion/irritation Category 1B	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
	May form combustible dust concentrations in air	
H290	May be corrosive to metals	
H302	Harmful if swallowed	
H314	Causes severe skin burns and eye damage	
H315	Causes skin irritation	
H318	Causes serious eye damage	
H320	Causes eye irritation	
H335	May cause respiratory irritation	
H351	Suspected of causing cancer	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as quaranteeing any specific property of the product.

SDS US (GHS HazCom)

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