

Safety Data Sheet: AWS A5.1 E6011

Supercedes Date Not applicable Issuing Date 04/17/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name E6011 CELLULOSE ELECTRODE Recommended use Welding Information on Manufacturer TOKO Technology(Wuxi) Co.,Ltd (WUXI,CHINA) JP@TOKOC.COM Product Code TOKO E6011 Chemical nature Inorganic solid blend Emergency Telephone Number

TEL: (86)510-83595138

2. HAZARD IDENTIFICATION

 Color Dark gray
 Physical State Solid
 Odor Not significant

Category 4

Category 1

Category 1

GHS

Classification

Physical Hazards

None

Health Hazard

Acute Oral Toxicity

Acute Aquatic Toxicity

Chronic Aquatic Toxicity Other hazards

None

Labeling Signal Word

WARNING



Hazard Statements

H302 - Harmful if swallowed

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements

P264 - Wash face, hands and any exposed skin thoroughly after handling.

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

P273 - Avoid release to the environment

P330 - Rinse mouth

P301+ P312 - IF SWALLOWED: Call a physician if unwell

P501 - Dispose of contents and container to an approved waste disposal plant.

Dispose of contents/container to an approved incineration plant

106.5 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS Component CAS-No Weight % 7439-89-6 60-100 Iron 65996-61-4 Cellulose pulp 1-5 Magnesium oxide 1309-48-4 <5 Sodium silicate 1344-09-8 1-5 Titanium dioxide 13463-67-7 <5 Manganese 7439-96-5 1-5 Quartz 14808-60-7 <.5 Calcium carbonate 1317-65-3 5-1.5

4. FIRST AID MEASURES

General advice Eye Contact Skin Contact Wash thoroughly after handling. Do not take internally.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion If swallowed, call a poison control center or doctor immediately. Do not induce vomiting without

medical advice. Never give anything by mouth to an unconscious person. Rinse mouth.

Notes to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flash Point The product is not flammable Method Seta closed cup

Upper No data available Lower No data available

Suitable Extinguishing Media

Carbon dioxide (CO2). Dry chemical. Foam. Water spray.

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

 NFPA
 Health 2
 Flammability 1
 Instability 0
 Other 0

 HMIS
 Health 2
 Flammability 1
 Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can

create slippery conditions.

Environmental Precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national

regulations (see section 13).

Methods for Cleaning Up Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national

regulations (see section 13).

Neutralizing Agent Not applicable.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing.

StorageStore in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.Storage TemperatureMinimumNo information availableMaximumNo information availableStorage ConditionsIndoorXOutdoorXHeatedRefrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Iron	No data available	No data available	No data available
Cellulose pulp	No data available	No data available	No data available
Magnesium oxide	TWA: 10 mg/m ³	TWA: 15 mg/m ³	IDLH: 750 mg/m ³
Sodium silicate	No data available	No data available	No data available
Titanium dioxide	TWA: 10 mg/m ³	TWA: 15 mg/m ³	IDLH: 5000 mg/m ³
Manganese	TWA: 0.2 mg/m ³	Ceiling: 5 mg/m ³	IDLH: 500 mg/m ³
			STEL 3 mg/m ³
			TWA: 1 mg/m ³
Quartz	TWA: 0.025 mg/m ³	No data available	IDLH: 50 mg/m ³
			TWA: 0.05 mg/m ³
Calcium carbonate	No data available	TWA: 15 mg/m ³ TWA: 5 mg/m ³	TWA: 10 mg/m ³ TWA: 5 mg/m ³

Engineering Measures Use enough ventilation, local exhaust at the arc, or both to keep the fumes and gasses below the

TLV's in the workers' breathing zone and the general area. Train the worker to keep his head out of the fumes. Use MSHA/NIOSH approved or equivalent fume respirator or air supplied respirator when welding in a confined space or when local exhaust or ventilation does not keep exposure below TLV.

Personal Protective Equipment Eye/Face Protection Skin Protection

Safety glasses with side-shields.

Wear head, hand and body protection which help to prevent injury from radiation, sparks and electrical shock. SEE ANSI Z-49.I. Train the welder not to touch live electrical parts and to insulate

himself from work and ground

Issuing Date 04/17/2013

AWS A5.1 E6011

Respiratory Protection

Use a NIOSH/MSHA approved or equivalent fume respirator or air supplied respirator when welding in confined spaces, or where local exhaust or ventilation does not keep exposure below TLV's.

in confined spaces, or where local exhaust or ventilation does

General Hygiene Considerations

Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StateSolidViscosityNot applicableColorDark grayOdorNot significantOdor ThresholdNot applicableAppearanceMetallic

pHNot applicableSpecific GravityNo data availableEvaporation RateNo information availablePercent Volatile (Volume)No information availableVOC Content (%)No information availableVapor PressureNo information available

Vapor Density Not applicable Solubility Insoluble

n-Octanol/Water Partition
No data available

Flammability (solid, gas)

No data available

Flash Point

Ne product is not flammable

Method

Seta closed cup

Autoignition Temperature No information available.

Upper No data available Lower No data available

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions

Conditions to Avoid None known

Incompatible Products No materials to be especially mentioned

Hazardous Decomposition Products

Possibility of Hazardous Reactions

None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50 No information available
Permal LD50 No information available

Inhalation LC50

GasNo information availableMistNo information availableVaporNo information available

Principle Route of Exposure

Primary Routes of Entry

Acute Effects

Inhalation, Ingestion. Inhalation

innaiation

Eyes May cause slight irritation

Skin Substance may cause slight skin irritation

Inhalation Inhalation may cause central nervous system effects. Symptoms and signs include headache,

dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Toxicity No information available

Target Organ Effects Blood, Central nervous system, Kidney, Respiratory system.

Aggravated Medical Conditions Central nervous system, Kidney disorders.

Component Information

Acute Toxicity

Jule Toxicity					
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Iron	= 984 mg/kg (Rat)	no data available	no data available	no data available	no data available
Cellulose pulp	no data available	no data available	no data available	no data available	no data available
Magnesium oxide	no data available	no data available	no data available	no data available	no data available
Sodium silicate	= 1153 mg/kg (Rat)	> 4640 mg/kg (Rabbit)	no data available	no data available	no data available
Titanium dioxide	> 10000 mg/kg (Rat)	no data available	no data available	no data available	no data available
Manganese	= 9 g/kg (Rat)	no data available	no data available	no data available	no data available
Quartz	= 500 mg/kg (Rat)	no data available	no data available	no data available	no data available
Calcium carbonate	no data available	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Iron	no data available	no data available	no data available	no data available	no data available
Cellulose pulp	no data available	no data available	no data available	no data available	no data available
Magnesium oxide	no data available	no data available	no data available	no data available	eyes,respiratory system
Sodium silicate	no data available	no data available	no data available	no data available	kidneys
Titanium dioxide	no data available	no data available	no data available	no data available	respiratory system

Manganese	no data available	no data available	no data available	no data available	CNS,respiratory
					system,blood,kidneys
Quartz	no data available	no data available	no data available	no data available	eyes,respiratory system
Calcium carbonate	no data available	no data available	no data available	no data available	eyes, respiratory
					system, skin

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
Iron	not applicable				
Cellulose pulp	not applicable				
Magnesium oxide	not applicable				
Sodium silicate	not applicable				
Titanium dioxide	not applicable	Group 2B	not applicable	X	not applicable
Manganese	not applicable				
Quartz	A2	Group 1	Known	X	not applicable
Calcium carbonate	not applicable				

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Iron	no data available	LC50 = 13.6 mg/L Morone saxatilis 96 h	no data available	no data available	N/A
		LC50 = 0.56 mg/L Cyprinus carpio 96 h			
Cellulose pulp	no data available	no data available	no data available	no data available	N/A
Magnesium oxide	no data available	no data available	no data available	no data available	N/A
Sodium silicate	no data available	LC50 301 - 478 mg/L Lepomis macrochirus 96 h LC50 = 3185 mg/L Brachydanio rerio 96 h	no data available	EC50= 216 mg/L 96 h	N/A
Titanium dioxide	no data available	no data available	no data available	no data available	N/A
Manganese	no data available	no data available	no data available	no data available	N/A
Quartz	no data available	no data available	no data available	no data available	N/A
Calcium carbonate	no data available	no data available	no data available	no data available	N/A

Persistence and DegradabilityNo information available.BioaccumulationNo information available.MobilityNo information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.

Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

Inventories

TSCA Complies DSL Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals

which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations. Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Manganese	7439-96-5	1-5	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of	Reactive Hazard
Yes	No	No	Pressure Hazard No	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Iron	Not applicable	Not applicable
Cellulose pulp	Not applicable	Not applicable
Magnesium oxide	Not applicable	Not applicable
Sodium silicate	Not applicable	Not applicable
Titanium dioxide	Not applicable	Not applicable
Manganese	Not applicable	Not applicable
Quartz	Not applicable	Not applicable
Calcium carbonate	Not applicable	Not applicable

16. OTHER INFORMATION

Supercedes Date Not applicable Issuing Date 04/17/2013

Reason for RevisionNo information available.GlossaryNo information available.List of References.No information available.

TOKO Technology(Wuxi) Co., assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.