

SAFETY DATA SHEET

For Welding Consumables and Related Products

(to comply with OSHA Hazard Communication Standard 29 CFR 1910.1200)

1.PRODUCT AND COMPANY IDENTIFICATION

Product name : ER70S-6 ER70S-3 ER70S-G

Product no. : AWS ER70S-6 ER70S-3 ER70S-G

Manufacture/supplier/importor/distributor: SHENZHEN JASIC TECHNOLOGY CO., LTD.

NO.3 QINGLAN 1ST ROAD, PINGSHAN DISTRICT, SHENZHEN, CHINA

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2.HAZARDS IDENTIFICATION

Classified according to the criteria of the Globally Harmonized System of Classification and Labeling of Chemicals(GHS)

Emergency Overview

Form: Solid

Physical state: Solid

Hazard Statement(s) : Welding arc and sparks can ignite combustible and flammable products.

Arc rays can injure eyes and burn skin. Electric shock can kill.

Hazard Classification Not classified as hazardous according to applicable GHS hazard classification criteria

Label Elements

Hazard Symbol: No symbol

Signal word: No Signal word

Hazard statement: Not applicable

Precautionary Not applicable

Statement:

Other hazards which do not result in GHS classification:

Electrical Shock can kill. If welding must be performed in damp locations or with wet clothing, on metal structures or when in cramped positions such as sitting, kneeling or lying, or if there is a high risk of unavoidable or accidental contact with work piece, use the following equipment: Semiautomatic OC Welder, DC Manual (Stick) Welder, or AC Welder with Reduced Voltage Control. Arc rays can injure eyes and burn skin. Welding arc and sparks can ignite combustibles and flammable materials. Overexposure to welding fume and gases can be hazardous. Read and understand the manufacturer's instructions, Safety Data Sheets and the precautionary labels before using this product. Refer to Section 8.

Substance(s) formed under the conditions of use:

The welding fume produced from this welding electrode may contain the conditions of use: following constituent(s) and/or their complex metallic oxides as well as solid particles or other constituents from the consumables, base metal, or base metal coating not listed below. Fume from this product may contain low levels of copper, typically less than 1% by weight. Overexposure to copper may cause metal fume fever, as well as skin, eye and respiratory tract irritation.

Chemical Identity	CAS-No.
Carbon dioxide	124-38-9
Carbon monoxide	630-08-0
Nitrogen dioxide	10102-44-0
Ozone	10028-15-6
Manganese	7439-96-5

3. COMPOSITION INFORMATION ON INGREDIENTS

Reportable Hazardous Ingredients Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Iron	7439-89-6	>60%
Manganese	7439-96-5	<10%
Silicon	7440-21-3	<1%

All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments:

The term "Hazardous Ingredients" should be interpreted as a term defined in Hazard Communication standards and does not necessarily imply the existence of a welding hazard. The product may contain additional non-hazardous ingredients or may form additional compounds under the condition of use. Refer to Sections 2 and 8 for more information.

4. FIRST AID MEASURES

Ingestion:

Unlikely due to form of product, except for granular materials. Avoid hand, clothing, food, and drink contact with metal fume or powder which can cause ingestion of particulate during hand to mouth activities such as drinking, eating, smoking, etc. If ingested, do not induce vomiting. Contact a poison control center. Unless the poison control center advises otherwise, wash out mouth thoroughly with water. If symptoms develop, seek medical attention at once.

Inhalation:

Move to fresh air if breathing is difficult. If breathing has stopped, perform artificial respiration and obtain medical assistance at once.

Skin Contact:

Remove contaminated clothing and wash the skin thoroughly with soap and water. For reddened or blistered skin, or thermal burns, obtain medical assistance at once.

Eye contact:

Dust or fume from this product should be flushed from the eyes with copious amounts of clean tepid water until transported to an emergency medical facility. Do not allow victim to rub or keep eyes tightly closed. Obtain medical assistance at once. Arc rays can injure eyes. If exposed to arc rays, move victim to dark room, remove contact lenses as necessary for treatment, cover eyes with a padded dressing and rest. Obtain medical assistance if symptoms persist.

Most important symptoms/effects, acute and delayed Symptoms:

Short-term (acute) overexposure to fumes and gases from welding and allied processes may result in discomfort such as metal fume fever, dizziness, nausea, or dryness or irritation of nose, throat, or eyes. May aggravate pre-existing respiratory problems (e.g. asthma, emphysema). Long-term (chronic) overexposure to fumes and gases from welding and allied processes can lead to siderosis (iron deposits in lung), central nervous system effects, bronchitis and other pulmonary effects. Refer to Section 11 for more information.

Hazards:

Welding and allied process hazards are complex and may include physical and health hazards such as but not limited to electric shock, physical strains, radiation burns (eye flash), thermal burns due to hot metal or spatter and potential health effects of overexposure to welding fume or dust. Refer to Section 11 for more information.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

General Fire Hazards:

As shipped, this product is nonflammable. However, welding arc and sparks can ignite combustibles and flammable products. Read and understand American National Standard Z49.1, "Safety In Welding, Cutting and Allied Processes" and National Fire Protection Association NFPA 518, "Standard for Fire Prevention During Welding, Cutting and Other Hot Work" before using this product.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

As shipped, this product is nonflammable. However, welding arc and surroundings: use appropriate extinguishing agent.

Unsuitable extinguishing media

Suitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical:

Welding arc and sparks can ignite combustibles and flammable products.

Special protective equipment and precautions for fire fighters

Special fire fighting Procedures:

Use standard firefighting procedures and consider the hazards of other involved materials

Special protective equipment for fire-fighters:

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6.ACCIDENTAL RELEASE MEASURE

Personal precautions, Protective equipment And emergency procedure:

If airborne dust and/or fume is present, use adequate engineering controls and, if needed, personal protection to prevent overexposure. Refer to recommendations in Section 8.

Methods and material for Containment and Cleaning up:

Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk. Clean up spills immediately, observing precautions in the personal protective equipment in Section 8. Avoid generating dust. Prevent product from entering any drains, sewers or water sources. Refer to Section 13 for proper disposal

Environmental Precaution:

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

7.HANDLING AND STORAGE

Precautions for safe handling:

Prevent formation of dust. Provide appropriate exhaust ventilation at places where dust is formed Read and understand the manufacturer's instruction and the precautionary label on the product. See American National Standard Z49.1, "Safety In Welding, Cutting and Allied Processes" published by the American Welding Society <http://pubs.aws.org> and OSHA Publication 2206 (29CFR1910), U.S. Government Printing Office, www.gpo.gov.

Conditions for safe storage, Including an incompatibilities:

Store in closed original container in a dry place. Store in a dry place accordance with local/regional/national regulations. Store away from incompatible materials.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational Exposure limits:China

Chemical Identity	Type	Exposure Limit Values	Source
Manganese -as MnO2	PC-TWA	0.15mg/M3	China, OELs(Occupation Exposure Limits for Hazardous Agents in the workplace(GBZ 2.1)(03 2008)

Occupational Exposure limits:US

Chemical Identity	Type	Exposure Limit Values	Source
Manganese -Fume.-as Mn	Ceiling	5mg/M3	US.OSHA TABLE z-1 limits for air contaminants(29 CFR 1910.1000)(02 2006)
Manganese -Inhalable fraction-as Mn	TWA	0.1mg/M3	US.ACGIH Threshold Limit values(03 2014)
Manganese -Respirable fraction-as Mn	TWA	0.02mg/M3	US.ACGIH Threshold Limit values(03 2014)

Biological Limit values: China

None of the components have assigned exposure limits.

Biological Limit values: ACGIH

None of the components have assigned exposure limits.

Additional exposure limits under the conditions of use: China

Chemical Identity	Type	Exposure limit Values	Source
Carbon dioxide	PC-STEL	18,000mg/m3	China.OELs(Occupational Exposure Limits for Hazardous Agents in the Workplace) (GBZ 2.1)
	PC-TWA	9000mg/m3	China.OELs(Occupational Exposure Limits for Hazardous Agents in the Workplace) (GBZ 2.1)
Carbon monoxide	MAC	15mg/m3	China.OELs(Occupational Exposure Limits for Hazardous Agents in the Workplace) (GBZ 2.1)
	PC-STEL	30mg/m3	China.OELs(Occupational Exposure Limits for Hazardous Agents in the Workplace) (GBZ 2.1)
	PC-TWA	20mg/m3	China.OELs(Occupational Exposure Limits for Hazardous Agents in the Workplace) (GBZ 2.1)
	MAC	20mg/m3	China.OELs(Occupational Exposure Limits for Hazardous Agents in the Workplace) (GBZ 2.1)
Nitrogen dioxide	PC-STEL	10mg/m3	China.OELs(Occupational Exposure Limits for Hazardous Agents in the Workplace) (GBZ 2.1)
	PC-TWA	5mg/m3	China.OELs(Occupational Exposure Limits for Hazardous Agents in the Workplace) (GBZ 2.1)
Ozone	MAC	0.3mg/m3	China.OELs(Occupational Exposure Limits for Hazardous Agents in the Workplace) (GBZ 2.1)
Manganese- as MnO2	PC-TWA	0.15mg/m3	China.OELs(Occupational Exposure Limits for Hazardous Agents in the Workplace) (GBZ 2.1)

Additional exposure limits under the conditions of use: US

Chemical Identity	Type	Exposure limit Values	Source
Carbon dioxide	TWA	5000ppm	US.ACGIH Threshold Limit Values(12 2010)
	STEL	30,000ppm	US.ACGIH Threshold Limit Values(12 2010)
	PEL	5000ppm 9000mg/m3	US.OSHA TABLE Z-1 Limits for Air Contaminants(29 CFR 1910.1000)(02 2006)
Carbon monoxide	TWA	25 ppm	US.ACGIH Threshold Limit Values(12 2010)
	PEL	50 ppm 55mg/m3	US.OSHA TABLE Z-1 Limits for Air Contaminants(29 CFR 1910.1000)(02 2006)
Nitrogen dioxide	TWA	0.2 ppm	US.ACGIH Threshold Limit Values(02 2012)
	Ceiling	5 ppm 9mg/m3	US.OSHA TABLE Z-1 Limits for Air Contaminants(29 CFR 1910.1000)(02 2006)
Ozone	PEL	0.1 ppm 0.2mg/m3	US.OSHA TABLE Z-1 Limits for Air Contaminants(29 CFR 1910.1000)(02 2006)
	TWA	0.05 ppm	US.ACGIH Threshold Limit Values(03 2014)
	TWA	0.20 ppm	US.ACGIH Threshold Limit Values(03 2014)
	TWA	0.10 ppm	US.ACGIH Threshold Limit Values(03 2014)
	TWA	0.08 ppm	US.ACGIH Threshold Limit Values(03 2014)
Manganese- Fume-as Mn	Ceiling	5mg/m3	US.OSHA TABLE Z-1 Limits for Air Contaminants(29 CFR 1910.1000)(02 2006)
Manganese - Inhalable fraction-as Mn	TWA	0.1mg/m3	US.ACGIH Threshold Limit Values(03 2014)
Manganese -Respirable fraction-as Mn	TWA	0.02mg/m3	US.ACGIH Threshold Limit Values(03 2014)

Appropriate Engineering Controls:

Ventilation: Use enough ventilation, local exhaust at the arc, or both to keep the fumes and gases from the worker's breathing zone and the general area. Train the welder to keep his head out of the fumes. **Keep Exposure as low as possible.**

Individual protection measures, Such as personal protective equipment**General information:****Exposure Guidelines:**

Threshold Limit Values (TLVs) and Biological Exposure Indices (BEIs) are values published by the American Conference of Government Industrial Hygienists (ACGIH). ACGIH Statement of Positions Regarding the TLVs and BEIs states that the TLV-TVVA should be used as a guide in the control of health hazards and should not be used to indicate a fine line between safe and dangerous exposures. See Section 10 for information on potential fume constituents of health interest. Threshold Limit Values are figures published by the American Conference of Government Industrial Hygienists. Maximum Fume Exposure Guideline™ (MFEGL)™ for this product based on content of Manganese is 0.3 mg/m^3 . This exposure guideline is calculated using the most conservative value of the ACGIH TLV or OSHA PEL for the stated substance. If your local applicable exposure limits are lower than the ACGIH TLV or OSHA PEL for any of the metallic substances listed in Section 2 or 3 of this SDS, you must take that into consideration before utilizing or applying this guideline.

Eye/Face protection:

Wear helmet or use face shield with filter lens shade number 12 or darker for open arc processes – or follow the recommendations as specified in ANSI Z49.1, Section 4, based on your process and settings. No specific lens shade recommendation for submerged arc or electroslag processes. Shield others by providing appropriate screens and flash goggles

Skin Protection hand protection:

Wear protective gloves. Suitable gloves can be recommended by the glove supplier.

Others:

Protective Clothing: Wear hand, head, and body protection which help to prevent injury from radiation, sparks and electrical shock. See 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. Wear dry gloves free of holes or split seams. Train the welder not to permit electrically live parts or electrodes to contact skin, clothing or gloves if they are wet. Insulate yourself from the work piece and ground using dry plywood, rubber mats or other dry insulation.

Respiratory Protection:

Keep your head out of fumes. Use enough ventilation and local exhaust to keep fumes and gases from your breathing zone and the general area. An approved respirator should be used unless exposure assessments are below applicable exposure limits.

Hygiene measures:

Do not eat, drink or smoke when using the product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. 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, F1.2, F1.3 and F1.5, available from the American Welding Society, www.aws.org.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid welding wire or rod

Physical state: solid

Form: solid

Color: No data available

ODor: No data available

PH: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability(solid,gas): No data available

Upper/lower limit on flammability: No data available

Flammability limit-upper(%):No data available

Flammability limit-lower(%):No data available

Explosive limit-upper(%):No data available

Explosive limit-lower(%):No data available

Vapor pressure: No data available

Vapor density: No data available

Density: No data available

Relative density:No data available

Solubility(ies)

Solubility in water: No data available

Solubility (other): No data available

Partition coefficient(noctanol/water):No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

10. STABILITY AND REACTIVITY

Reactivity:

The product is non-reactive under normal conditions of use, storage and transport.

Chemical Stability:

Material is stable under normal conditions.

Possibility of hazardous reactions:

None under normal conditions.

Conditions to avoid:

Avoid heat or contamination

Incompatible Materials:

Strong acids. Strong oxidizing substances. Strong bases.

Hazardous Decomposition

Fumes and gases from welding and allied processes cannot be classified simply. The composition and quantity of both are dependent upon the metal being welded, the process, procedure and electrodes used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coatings on the metal being welded (such as paint, plating, or galvanizing), the number of welders and the volume of the worker area, the quality and amount of ventilation, the position of the welder's head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from cleaning and degreasing activities.) When the electrode is consumed, the fume and gas decomposition products generated are different in percent and form from the ingredients listed in Section 3. 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 and coating, etc., as noted above. Reasonably expected fume constituents produced during arc welding include the oxides of iron, manganese and other metals present in the welding consumable or base metal. Hexavalent chromium compounds may be in the welding fume of consumables or base metals which contain chromium. Gaseous and particulate fluoride may be in the welding fume of consumables which contain fluoride. Gaseous reaction products may include carbon monoxide and carbon dioxide. Ozone and nitrogen oxides may be formed by the radiation from the arc.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation:

Potential chronic health hazards related to the use of welding consumables are most applicable to the inhalation route of exposure. Refer to Inhalation statements in Section 11.

Skin Contact:

Arc rays can burn skin. Skin cancer has been reported.

Eye contact:

Arc rays can injure eyes.

Ingestion:

Health injuries from ingestion are not known or expected under normal use.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:

Short-term (acute) overexposure to fumes and gases from welding and allied processes may result in discomfort such as metal fume fever, dizziness, nausea, or dryness or irritation of nose, throat, or eyes. May aggravate pre-existing respiratory problems (e.g. asthma, emphysema). Long-term (chronic) overexposure to fumes and gases from welding and allied processes can lead to siderosis (iron deposits in lung), central nervous system effects, bronchitis and other pulmonary effects.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified
Specified substance(s):
Iron LD 50 (Rat): 98.6 g/kg

Dermal Product: Not classified

Inhalation Product: Not classified

Repeated dose toxicity Product: Not classified

Skin Corrosion/ Irritation Product: Not classified

Serious Eye Damage/Eye Irritation Product: Not classified

Respiratory or Skin Sensitization Product: Not classified

Carcinogenicity Product: Arc rays: Skin cancer has been reported.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro Product: Not classified

Reproductive toxicity Product: Not classified

Specific Target Organ Toxicity - Single Exposure

Product: Not classified

Specific Target Organ Toxicity - Repeated Exposure

Product: Not classified

Aspiration Hazard Product: Not classified

Other effects:

Organic polymers may be used in the manufacture of various welding consumables. Overexposure to their decomposition byproducts may result in a condition known as polymer fume fever. Polymer fume fever usually occurs within 4 to 8 hours of exposure with the presentation of flu like symptoms, including mild pulmonary irritation with or without an increase in body temperature. Signs of exposure can include an increase in white blood cell count. Resolution of symptoms typically occurs quickly, usually not lasting longer than 48 hours.

Symptoms related to the physical, chemical and toxicological characteristics under the condition of use Inhalation:

Specified substance(s):

Manganese

Overexposure to manganese fumes may affect the brain and central nervous system, resulting in poor coordination, difficulty speaking, and arm or leg tremor. This condition can be irreversible.

Additional toxicological Information under the conditions of use:

Acute toxicity

Inhalation

Specified substance(s):

Carbon dioxide	LC Lo (Human, 5 min): 90000 ppm
Carbon monoxide	LC 50 (Rat, 4 h): 1,300 mg/l
Nitrogen dioxide	LC 50 (Rat, 4 h): 88 ppm
Ozone	LC Lo (Human, 30 min): 50 ppm

Other effects:

Specified substance(s):

Carbon dioxide	Asphyxia
Carbon monoxide	Carboxyhemoglobinemi
Nitrogen dioxide	Lower respiratory tract irritation

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute hazards to the aquatic environment:

Fish

Product: Not classified

Aquatic Invertebrates Product: Not classified

Specified substance(s):

Manganese EC 50 (Water flea (Daphnia magna), 48 h): 40 mg/l

Chronic hazards to the aquatic environment:

Fish Product: Not classified

Aquatic Invertebrates Product: Not classified

Toxicity to Aquatic Plants Product: Not classified

Persistence and Degradability

Biodegradation Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF) Product: No data available.

Mobility in soil:

No data available.

13. DISPOSAL CONSIDERATIONS

General information:

The generation of waste should be avoided or minimized whenever possible. When practical, recycle in an environmentally acceptable, regulatory compliant manner. Dispose of non-recyclable products in accordance with all applicable Federal, State, Provincial, and Local requirements.

Disposal instructions:

Dispose of this material and its container to hazardous or special waste collection point.

Contaminated Packaging:

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

14. TRANSPORT INFORMATION**CNDG**

UN Number:
UN Proper Shipping Name: NOT DG REGULATED
Transport Hazard Class(es)
Class: NR
Label(s): -
EmS No.

Packing Group: -
Marine Pollutant: NO
Special precautions for user: Not regulated.

IMDG

UN Number: NOT DG REGULATED
UN Proper Shipping Name:
Transport Hazard Class(es)
Class: NR
Label(s): -
EmS No.:

Packing Group: -
Marine Pollutant: NO

IATA

UN Number:
Proper Shipping Name: NOT DG REGULATED
Transport Hazard Class(es):
Class: NR
Label(s): -
Packing Group: -
Marine Pollutant: NO
Cargo aircraft only: Allowed

15. REGULATORY INFORMATION**China. National Catalogue of Hazardous Wastes**

Not Regulated

China. Highly Toxic Chemicals (Dept. of Health Notice)

Manganese Listed.

China. Very Toxic Chemicals (Public Notice No. 2)

Not Regulated

China. Precursor Chemicals (Decree No. 445 of the PRC on Regulation for Administration of Precursor Chemicals, Appendix: Categories 1-3)

Not Regulated

China: CWC. Controlled Chemicals List (Regulations on the Administration of Controlled Chemicals, Decree No. 190, Dec. 27, 1995, as amended)

Not Regulated

China. Explosive Precursor Hazardous Chemicals (Ministry of Public safety, 2011 version) Not Regulated

China. Catalog of Hazardous Chemicals

Silicon Listed.

Inventory Status:

Australia AICS:	On or in compliance with the inventory
Canada OSL Inventory List:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	On or in compliance with the inventory
Japan (ENCS) List:	One or more components are not listed or are exempt from listing.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Canada NOSL Inventory:	One or more components are not listed or are exempt from listing.
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Japan ISHL Listing:	One or more components are not listed or are exempt from listing.
Japan Pharmacopoeia Listing:	One or more components are not listed or are exempt from listing.
Mexico INSQ:	One or more components are not listed or are exempt from listing.
Ontario Inventory:	One or more components are not listed or are exempt from listing.
Taiwan Chemical Substance Inventory:	One or more components are not listed or are exempt from listing.

16. OTHER INFORMATION

Definitions:

The Maximum Fume Exposure Guideline™ (MFEG)™ is a guideline limit for total welding fume exposure for a specific consumable product which may be used by employers to manage worker exposure to welding fume where that product is used. The MFEG™ is an estimate of the level of total welding fume exposure for a given product above which the exposure limit for one of the fume constituents may be exceeded. The exposure limits referenced are the American Conference of Governmental industrial Hygienists (ACGIH) Threshold limit Value (TLV) and the U.S. OSHA Permissible Exposure Limit (PEL) whichever limit is lower. If local applicable limits for substances listed in Section 2 or 3 of this SDS are lower than the TLV or PEL this must be taken into consideration before utilizing or applying this guideline. The MFEG™ never exceeds 5 mg/m^3 which is the maximum recommended exposure limit for total welding fume. **The MFEG™ is intended to serve as a general guideline to assist in the management of workplace exposure to welding fume and does not replace the regular measurement and analysis of worker exposure to individual welding fume constituents in accordance with recommended industrial hygiene practice.**

Revision Date: 31.05.2018

Further Information: Additional information is available by request.

References: Prepared in accordance with GB/T 16483 and GB/T 17519

Disclaimer:

The changzhou city yunhe welding material co,ltd, urges each end user and recipient of this SDS to study it carefully. If necessary consult an industrial hygienist or other expert to understand this information and safeguard the environment and protect workers from potential hazards associated with the handling or use of this product. This information is believed to be accurate as of the revision date shown above. However, no warranty,

expressed or implied, is given. Because the conditions or methods of use are beyond changzhou yunhe welding material co.ltd., we assume no liability resulting from the use of this product. Regulatory requirements are subject to change and may differ between various locations. Compliance with all applicable local laws and regulations remain the responsibility of the user.