

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture
Product Name: SS-7 EWI Deep TIG

1.2. Intended Use of the Product:

Use of the substance/mixture: Penetration Enhancing Compound for GTA Welding of Stainless Steel Alloys. For professional use only.

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

Company
EWI
1250 Arthur E. Adams Drive
Columbus, OH 43221
614-688-5000
www.ewi.org

1.4. Emergency Telephone Number

Emergency Number : 614-688-5000 8am - 4pm EST M-F

SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the Substance or Mixture Classification (GHS-US)

Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Inhalation:dust,mist) H332
Skin Sens. 1 H317

2.2. Label Elements GHS-US Labeling

Hazard Pictograms (GHS-US) :



Signal Word (GHS-US) : Warning

Hazard Statements (GHS-US) : H302+H332 - Harmful if swallowed or if inhaled
H317 - May cause an allergic skin reaction.

Precautionary Statements (GHS-US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust, fume.
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective clothing, protective gloves, eye protection, face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P312 - Call a POISON CENTER/doctor if you feel unwell.
P321 - Specific treatment (see Section 4).
P330 - Rinse mouth.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container according to local, regional, national, and international regulations

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2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath.

2.4. Unknown Acute Toxicity (GHS-US) No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	Classification (GHS-US)
Titanium oxide (TiO)	(CAS No) 12137-20-1	30 - 60	Not classified
Chromium oxide (Cr ₂ O ₃)	(CAS No) 1308-38-9	20 - 50	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Sens. 1, H317
Silica, amorphous, fumed, crystalline-free	(CAS No) 112945-52-5	<=20	Not classified

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.
- First-aid Measures After Inhalation : When symptoms occur: go into open air and ventilate suspected area. If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. If exposed or concerned: Get medical advice/attention.
- 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.
- First-aid Measures After Eye Contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid Measures After Ingestion : Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately.

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

- Symptoms/effects : Skin sensitisation. Harmful if swallowed. Harmful if inhaled. Welding or processing this material may release dust or fumes that are hazardous.
- Symptoms/effects after inhalation : Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness. During welding, the most significant route of exposure is by the inhalation (breathing) of welding fumes. If welding fumes are inhaled, they can cause a condition commonly known as metal fume fever with symptoms which resemble influenza.
- Symptoms/effects after skin contact : May cause an allergic skin reaction.
- Symptoms/effects after eye contact : May cause slight irritation to eyes.
- Symptoms/effects after ingestion : This material is harmful orally and can cause adverse health effects or death in significant amounts.
- Chronic symptoms : Inhalation of fumes may cause metal fume fever.

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 : Water spray, dry chemical, foam, carbon dioxide.
- 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 flammable.
- 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.
- 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 breathing dust. Do not get in eyes, on skin, or on clothing.

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 : 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. Ventilate area.

6.2. Environmental Precautions

- Prevent entry to sewers and 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. As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area.
- Methods for cleaning up : Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

- Additional hazards when processed : Fumes from welding, or processing of this material can be harmful if inhaled. Risk of electric shock when welding. This product is intended for use in ARC welding. Arc rays and sparks can burn skin. 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.
- 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 breathing dust. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area.
- 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.

7.3. Specific End Use(s)

Penetration Enhancing Compound for GTA Welding of Carbon Steel Alloys. For professional use only.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Chromium oxide (Cr ₂ O ₃) (1308-38-9)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.05 mg/m ³ 0.5 (Cr II & Cr III Compounds) 0.05 (Cr VI Water Soluble)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1 mg/m ³ (metal) 0.5 (Cr II & Cr III Compounds) 0.005 (Cr VI Compounds)
Silica, amorphous, fumed, crystalline-free (112945-52-5)		
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³ (respirable)
USA OSHA	ACGIH TWA (mg/m ³)	10 mg/m ³

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. Gas detectors should be used when toxic gases may be released.
- Personal protective equipment : Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.
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- Materials for protective clothing : Chemically resistant materials and fabrics.
- Hand protection : Wear protective gloves.
- Eye protection : Chemical safety goggles.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : 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

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: Green Powder
Odor	: Odorless
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20 °C	: No data available
Relative Density	: No data available
Solubility	: Insoluble in water
Partition Coefficient: N-octanol/water	: No data available
Viscosity	: No data available

9.2. Other Information

No additional information available

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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

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous decomposition products

When heated, material emits irritating and harmful fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute toxicity : Oral: Harmful if swallowed. Inhalation:dust,mist: Harmful if inhaled.

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ATE CLP (oral)	1.000,00 mg/kg bodyweight
ATE CLP (dust,mist)	3,00 mg/l/4h
Silica, amorphous, fumed, crystalline-free (112945-52-5)	
LD50 oral rat	3160 mg/kg
Chromium oxide (Cr₂O₃) (1308-38-9)	
LD50 oral rat	> 5000 mg/kg
ATE CLP (oral)	500,00 mg/kg bodyweight
ATE CLP (dust,mist)	1,50 mg/l/4h

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Silica, amorphous, fumed, crystalline-free (112945-52-5)	
IARC group	3
Chromium oxide (Cr₂O₃) (1308-38-9)	
IARC group	3

Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Symptoms/Injuries After Inhalation : Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness. During welding, the most significant route of exposure is by the inhalation (breathing) of welding fumes. If welding fumes are inhaled, they can cause a condition commonly known as metal fume fever with symptoms which resemble influenza.
Symptoms/Injuries After Skin Contact : May cause an allergic skin reaction.
Symptoms/Injuries After Eye Contact : May cause slight irritation to eyes.
Symptoms/Injuries After Ingestion : This material is harmful orally and can cause adverse health effects or death in significant amounts.
Chronic Symptoms : Inhalation of fumes may cause metal fume fever.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology-general: Not classified

Chromium oxide (Cr₂O₃) (1308-38-9)	
NOEC chronic fish	1000 mg/l (Species: Brachydanio rerio - Duration: 30 d)

12.2. Persistence and Degradability

Not established

12.3. Bioaccumulative Potential

Not established

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

Product/Packaging disposal : Dispose of contents/container in accordance with local, regional, national, and recommendations international regulations.

Additional information : Container may remain hazardous when empty. Continue to observe all precautions.

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

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SARA Section 311/312 Hazard Classes	Immediate (acute) health
Chromium oxide (Cr₂O₃) (1308-38-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Titanium oxide (TiO) (12137-20-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2 US State Regulations

Chromium oxide (Cr₂O₃) (1308-38-9)	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	

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

Revision Date : 05/02/2017

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
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Skin Sens. 1	Skin sensitization Category 1
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H332	Harmful if inhaled

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 guaranteeing any specific property of the product.

SDS US (GHS HazCom)

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