



Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

Section 1: Product and Company Identification

Product Name: PRE1, PRE2, PRE3, PRE4, PRE10, PRE20, PRE30, PRE40
Product Identifier: Welding Cable - Black, Green, Red, Yellow, Blue, Pink, or Orange
Product Use: Industrial Applications
SDS Code: 006
Manufacturer: Techniweld USA, LLC
Physical Address: 6205 Boat Rock Blvd
Atlanta, GA 30336
Mailing Address: P.O. Box 44226
Atlanta, GA 30336
Business Phone: 404-699-9900
Business Fax: 404-699-7800
E-mail Address: info@techniweldusa.com
Web Address: www.techniweldusa.com
Emergency Phone: CHEMTREC (24-Hour) 1-800-424-9300
Date of Preparation: June 2, 2016 (Revised October 17, 2016)
OSHA Regulatory Status: Non-Regulated
WHMIS Classification: Not a Controlled Product

Section 2: Hazards Identification

Emergency Overview

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: Inhalation, Ingestion, Skin contact

Acute Exposure

Inhalation: Particulates, like other inert materials can be mechanically irritating
Ingestion: May be harmful if swallowed.
Eyes: Particulates, like other inert materials can be mechanically irritating
Skin: Experience shows no unusual dermatitis hazard from routine handling.

Chronic exposure: Refer to section 11 for Toxicology Information.

Medical Conditions: None known.

Aggravated by Exposure:

Revised October 17, 2016

CABLE

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Section 3: Composition and Information on Ingredients

Components	C.A.S. Number	%By Weight
Carbon Black	1333-86-4	1-5
Titanium Dioxide	13463-67-7	1-5
Zinc Oxide	1314-13-2	1-5

Section 4: First Aid Measures

Inhalation:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.
Ingestion:	Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.
Eyes:	Rinse immediately with plenty of water, also under eyelids, for at least 15 minutes. If irritation persists, seek medical attention.
Skin:	Wash off with soap and plenty of water. If irritation persists see medical attention.

Section 5: Fire Fighting Measures

Flash point:	Not applicable
Flammable Limits	
Upper explosion limit:	Not applicable
Lower explosion limit:	Not applicable
Auto-ignition temperature:	Not applicable
Suitable Extinguisher Media:	Water spray, Dry powder, Foam, carbon dioxide (CO ₂).
Special Fire Fighting Procedures:	Full face self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
Unusual fire/explosion Hazards:	Carbon dioxide (CO ₂), carbon monoxide (CO), Oxides of nitrogen (NO _x), other hazardous materials, and smoke are all possible.

Section 6: Accidental Release Measures

Personal precautions:	Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
Environmental Precautions:	Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
Methods for cleaning up:	Clean up promptly by sweeping or vacuum. Package all materials in plastic, cardboard or metal containers for disposal. Refer to Section 13 of this SDS for proper disposal methods.

Section 7: Handling and Storage

Handling:	Take measure to prevent the buildup of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.
Storage:	Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.

Section 8: Exposure Controls / Personal Protection

Respiratory:	no person respiratory protective equipment normally required when handling the product itself. See "Engineering Measures" section below for precautions to be taken when heating or processing this material.
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Eye/Face protection: Safety glasses with side-shields.
 Hand protection; Protective gloves.
 Skin and body Protection: Long sleeved clothing.
 Additional protective Measures: Safety shoes.
 General Hygiene considerations: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of work day.
 Engineering measures: Heat only in areas with appropriate exhaust ventilations. Adequate ventilation and/or appropriate respiratory protection may also be necessary to minimize employ exposure to processing vapors.

Exposure limit(s)

Components	Value	Exposure time	Exposure type	List:	
Carbon black	3.5 mg/m3	Recommended exposure limit (REL):		NIOSH	
	0.1 mg/m3	Recommended exposure limit (REL):		NIOSH	
	3.5 mg/m3	PEL:		OSHA Z1	
	3.5 mg/m3	Time Weighted Average (TWA):		OSHA Z1A	
	3.5 mg/m3	Time Weighted Average (TWA):		MX OEL	
	7 mg/m3	Short Term Exposure limit (STEL)		MX OEL	
Titanium dioxide	3 mg/m3	Time Weighted Average (TWA):	Inhalable fraction.	ACGIH	
	10 mg/m3	Time Weighted Average (TWA):		ACGIH	
	15 mg/m3	PEL:	Total dust.	OSHA Z1	
	10 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A	
	10 mg/m3	Time Weighted Average (TWA):	As Ti	MX OEL	
	20 mg/m3	Short Term Exposure limit (STEL)	As Ti	MX OEL	
	Zinc oxide	2 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
		10 mg/m3	Short Term Exposure limit (STEL)	Respirable fraction.	ACGIH
		5 mg/m3	Recommended exposure limit (REL):	Fume.	NOISH
		5 mg/m3	Recommended exposure limit (REL):	Dust.	NOISH
15 mg/m3		Ceiling Limit Value and Time Period (if specified):	Fume.	NOISH	
10 mg/m3		Short Term Exposure limit (STEL)	Fume.	NOISH	
5 mg/m3		PEL:	Fume.	OSHA Z1	
5 mg/m3		PEL:	Respirable fraction.	OSHA Z1	
15 mg/m3		PEL:	Total dust.	OSHA Z1	
5 mg/m3		Time Weighted Average (TWA):	Fume.	OSHA Z1A	
	5 mg/m3	Time Weighted Average (TWA):	Respirable Fraction.	OSHA Z1A	
	10 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A	
	10 mg/m3	Short Term Exposure limit (STEL)	Fume.	OSHA Z1A	
	5 mg/m3	Time Weighted Average (TWA):	Fume.	MX OEL	
	10 mg/m3	Time Weighted Average (TWA):	Dust.	MX OEL	
	10 mg/m3	Short Term Exposure limit (STEL)	Fume.	MX OEL	

Section 9: Physical and Chemical Properties

Form: Solid Evaporation rate: Not Applicable
 Appearance: Pellets, Slabs, Sheets Specific gravity: Not determined
 Color: Black, Green, Red, Yellow, Blue, Pink, or Orange Bulk density: Not established
 Odour: Characteristics rubber odor Vapour pressure: Not applicable
 Melting point/range: Not determined pH: Not applicable
 Boiling point: Not applicable
 Water solubility: Insoluble

Section 10: Stability and Reactivity

Stability:	Stable.
Hazardous polymerization:	Will not occur.
Conditions to avoid:	Keep away from oxidizing agents and open flame. Avoid thermal decomposition, do not overheat.
Incompatible materials:	Incompatible with strong acids and oxidizing agents.
Hazardous decomposition Products:	Carbon dioxide (CO ₂), carbon monoxide (Co), oxides of nitrogen (NO _x), other hazardous materials, and smoke are all possible.

Section 11: Toxicological Information

This mixture has not been evaluated as a whole for the health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS No.	Chemical name	Effect	Target Organ
1333-86-4	Carbon black	Systemic effects	Eyes, respiratory system.
13463-67-7	Titanium dioxide	System effects	Respiratory system.
1314-13-2	Zinc oxide	Systemic effects	Respiratory system.

LC50 /LD50

This product contains the following components which, in their pure form, have the following data:

CAS No.	Chemical name	Route	Value	Species
1333-86-4	Carbon black	Oral LD50 Oral LD50 Dermal LD50	>15,400 mg/kg 8,000 mg/kg >3 gm/kg	Rat Rabbit
1314-13-2	Zinc oxide	LC50 LC50 Oral LD 50 Oral LD50	2500 mg/m ³ 7,950 mg/kg 7,950 mg/kg	Mouse Mouse Mouse Mouse

Carcinogenicity

This product contains the following components which, in their pure form, have the following carcinogenicity data:

CAS No.	Chemical name	OSHA	IARC	NTP
1333-86-4	Carbon black	No	2B	No
13463-67-7	Titanium dioxide	No	2B	No

IARC carcinogen classifications;

- 1 – The component is carcinogenic to humans.
- 2A – The component is probably carcinogenic to humans.
- 2B – The component is possibly carcinogen to humans.

NTP Carcinogen classifications:

- 1 – The component is known to be human carcinogen
- 2 – The component is reasonably anticipated to be a human carcinogen

Additional health Hazard Information:

Carbon Black 1333-86-4 Carcinogenicity: Many inhalation toxicologist believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. However, the IARC evaluation in monograph volume 65, issued in April 1996 concluded that "There is sufficient evidence in experienced of carcinogenicity of carbon black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is "carbon black is possibly carcinogenic to humans (group

2B). The IARC 2B listing only pertains to airborne, unbound carbon black particles of respirable size. Carbon black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon black with PAH (Polynuclear Aromatic Hydrocarbon) levels greater than 0.1% be considered suspect carcinogens.

Section 12: Ecological Information

Persistence and degradability: Not readily biodegradable.
 Environmental Toxicity: Chemicals are not readily available as they are bound within the polymer matrix.
 Bioaccumulation Potential: Chemicals are not readily available as they are bound within the polymer matrix.
 Additional Advice: Not applicable.

Section 13: Disposal Considerations

Product: Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/providential and local regulations.
 Contaminated packaging: Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

Section 14: Transportation Information

US DOT Classification: Refer to specific regulation.
 ICAO/IATA (air): Refer to specific regulation.
 IMO/IMDG (marine); Refer to specific regulation.

Section 15: Regulatory Information

US Regulations:
 OSHA status: Classified as hazardous based on components.
 TSCA status: All components of this product are listed on or exempt from the TSCA Inventory.

US. EPA SERCLA hazardous Substances (40 CFR 302)
 Not applicable

California proposition 65: WARNING! This product contains a chemical known to the State of California to cause Cancer.

SARA Title III Section 302 Extremely hazardous Substance.
 Unless specific chemical are identified under this section, this product is Not Applicable under this regulation.

SARA Title III Section 313 TOXIC Chemicals:
 Unless specific chemical are identified under this section, this product is Not Applicable under this regulation.

Canadian regulations:
 National Pollutant Release Inventory (NPRI)

Chemical name	CAS No.	Weight %	NPRI ID#
Zinc oxide	1314-13-2	0.10-1.00	

WHMIS classification: D2A3
 WHMIS ingredient disclosure List;

CAS No.
1333-86-4
1314-13-2

DSL All of the components of this product are listed on the Canadian inventories or are exempt. However, at least one component of this product is on the Canadian Non-Domestic Substances list (NDSL). Quantity use in Canada is restricted by regulations.

National inventories:

Australia AICS:	Not Determined
China IECS:	Not Determined
Europe EINECS:	Not Determined
Japan ENCS:	Not Determined
Korea KECI:	Not Determined
Philippines PICCS:	Not Determined

Section 16: Other Information

The information provide in this Safety Data Sheet 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 guidance for safe handling, use, processing storage, transportation, disposal and release and is not to be considered as 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 materials or any process, unless specified in the text.

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