# MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

Ten Gauge™ / E71T-GS **Material name** 

Version #

25-February-2014 Issue date

**Revision date** Supersedes date

CAS# Mixture

**Product type** Flux cored welding wire Carbon Steel Welding Product use

Manufacturer information

Manufacturer/Supplier Harris Products Group

4501 Quality Place Mason, Ohio 45040 US custservmason@jwharris.com

Telephone number 513-754-2000

**Emergency Telephone** 

1-888-609-1762 (US, Canada, Mexico only)

**Numbers** 

Please quote 333988

#### 2. Hazards Identification

Physical state Solid.

Solid rods that have a metallic luster. **Appearance** 

WARNING **Emergency overview** 

May cause eye, skin and respiratory tract irritation. Toxic: danger of serious damage to health by

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

prolonged exposure through inhalation.

**OSHA** regulatory status

Potential health effects Inhalation. Skin contact. Eye contact. Routes of exposure

Fumes from heated material may cause eye irritation. Dust may irritate the eyes. Exposure to hot **Eyes** 

material may cause thermal burns.

Skin Exposure to hot material may cause thermal burns. Dust may irritate skin.

Inhalation Inhalation of fumes may cause a flu-like illness called metal fume fever. Inhalation of dusts may

cause respiratory irritation.

Ingestion is not likely to be a primary route of occupational exposure. Ingestion

**Target organs** Respiratory system. Eyes. Skin. Central nervous system.

**Chronic effects** Chronic inhalation of fumes or dust may cause irritation or other respiratory conditions (e.g.,

bronchitis). May cause lung damage.

Prolonged overexposure to fluorides may increase fluoride content of bones and teeth, and may result in fluorosis, and brittleness of bones. Absorbed fluoride can cause metabolic imbalances

with irregular heartbeat, nausea, dizziness, vomiting and seizures.

Ingestion of silver may cause a permanently benign bluish gray discoloration to the skin (argyria).

Prolonged exposure to silver may cause damage to the nasal septum.

Chronic inhalation of high concentrations of iron oxide fumes or dust may lead to benign

pneumoconiosis (siderosis).

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 Titanium dioxide is listed on the IARC (International Agency for Research on Cancer) as a Group 2B carcinogen (possibly carcinogenic to humans based on animal studies). However, due to the form of the product, risk of occupational exposure is expected to be limited.

Refer to Section 11 Toxicological Information for more details.

#### Signs and symptoms

Contact may cause irritation and redness. Dust may irritate respiratory system. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Typical metal fume fever begins four to twelve hours after sufficient exposure to freshly formed fumes. The first symptoms are a metallic taste, dryness and irritation of the throat. Cough and shortness of breath may occur along with headache, fatigue, nausea, vomiting, muscle and joint pain, fever and chills. The syndrome runs its course in 24-48 hours.

Alloys in massive forms present a limited hazard for the environment. Potential environmental effects

# 3. Composition / Information on Ingredients

Components	CAS#	Percent
Iron	7439-89-6	75 - 95
Aluminum	7429-90-5	< 5
Magnesium	7439-95-4	< 3
Calcium carbonate	471-34-1	< 2
Manganese	7439-96-5	< 2
Silver	7440-22-4	< 2
Flux	CAS#	Percent
Barium fluoride	7787-32-8	5 - 15
Calcium fluoride	7789-75-5	1 - 10
Titanium dioxide	13463-67-7	< 4
Lithium fluoride	7789-24-4	< 2
Strontium fluoride	7783-48-4	< 2

**Composition comments** 

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

# 4. First Aid Measures

First aid procedures

Eye contact Rinse immediately with plenty of water for at least 15 minutes. Remove any contact lenses. Get

medical attention if irritation develops or persists.

Skin contact Remove contaminated clothes and rinse skin thoroughly with water for at least 15 minutes. Get

medical attention if irritation develops and persists.

Inhalation Remove person from contaminated area to fresh air. Apply artificial respiration if needed. Call a

physician if symptoms develop or persist.

Do NOT induce vomiting. Immediately rinse mouth and drink a cupful of water. Never give anything Ingestion

by mouth to an unconscious person. Get medical attention immediately.

Treat symptomatically. Symptoms may be delayed. Notes to physician **General advice** Show this safety data sheet to the doctor in attendance.

# 5. Fire Fighting Measures

Solid metal is not flammable; however, finely divided metallic dust or powder may form an Flammable properties

explosive mixture with air. Do not use water on molten metal: Explosion hazard could result.

**Extinguishing media** 

Suitable extinguishing

media

Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing

media

Do not use water or halogenated extinguishing media.

**Protection of firefighters** 

Specific hazards arising from the chemical

Fire or high temperatures create: Metal oxides.

Fire fighting

equipment/instructions

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do it without risk.

## 6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Avoid inhalation of dust from the spilled material. Wear

protective clothing as described in Section 8 of this MSDS. Do not touch damaged containers or

spilled material unless wearing appropriate protective clothing.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment Stop leak if you can do so without risk. Local authorities should be advised if significant spillages

cannot be contained.

Methods for cleaning up Collect for salvage or disposal. Put material in suitable, covered, labeled containers. Avoid the

generation of dusts during clean-up. For waste disposal, see Section 13 of the MSDS.

Other information Clean up in accordance with all applicable regulations.

# 7. Handling and Storage

Handling Follow the recommendations in ANSI Z49.1, Safety in welding and cutting (ANSI=American

National Standard Institute). Avoid inhalation of dust and fumes. Use process enclosures, local exhaust ventilation, or other engineering controls to control sources of dust and fumes. Keep formation of airborne dusts to a minimum. Avoid contact with skin and eyes. Wear appropriate personal protective equipment (See Section 8). Do not eat, drink or smoke when using the

product. Wash thoroughly after handling. Avoid release to the environment.

Storage Store in tightly closed original container in a dry, cool and well-ventilated place. Store in a closed

container away from incompatible materials. Keep away from food, drink and animal feedingstuffs.

# 8. Exposure Controls / Personal Protection

Occupational exposure limits

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Manganese (CAS 7439-96-5)	TWA	0.1 mg/m3	Inhalable fraction.
•		0.02 mg/m3	Respirable fraction.
Silver (CAS 7440-22-4)	TWA	0.1 mg/m3	Dust and fume.
Flux	Туре	Value	
Barium fluoride (CAS 7787-32-8)	TWA	0.5 mg/m3	
Fluorides, as F (CAS 16984-48-8)	TWA	2.5 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	PEL	5 mg/m3	Respirable dust.
,		15 mg/m3	Total dust.
Calcium carbonate (CAS 471-34-1)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
Manganese (CAS 7439-96-5)	Ceiling	5 mg/m3	Fume.
Silver (CAS 7440-22-4)	PEL	0.01 mg/m3	
Flux	Туре	Value	Form
Barium fluoride (CAS 7787-32-8)	PEL	0.5 mg/m3	
Fluorides, as F (CAS 16984-48-8)	PEL	2.5 mg/m3	
Titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-2 (29 CFR 1910	.1000)		
Flux	Туре	Value	Form
Fluorides, as F (CAS	TWA	2.5 mg/m3	Dust.

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16984-48-8)

# Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	5 mg/m3	Pyrophoric powder.
		10 mg/m3	Dust.
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	
Manganese (CAS 7439-96-5)	TWA	0.2 mg/m3	
Silver (CAS 7440-22-4)	TWA	0.1 mg/m3	
Flux	Туре	Value	
Barium fluoride (CAS 7787-32-8)	TWA	0.5 mg/m3	
Fluorides, as F (CAS 16984-48-8)	TWA	2.5 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	1 mg/m3	Respirable.
Calcium carbonate (CAS 471-34-1)	STEL	20 mg/m3	Total dust.
,	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
Manganese (CAS 7439-96-5)	TWA	0.2 mg/m3	
Silver (CAS 7440-22-4)	STEL	0.03 mg/m3	
	TWA	0.01 mg/m3	
Flux	Туре	Value	Form
Barium fluoride (CAS 7787-32-8)	TWA	0.5 mg/m3	
Fluorides, as F (CAS 16984-48-8)	TWA	2.5 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable fraction.
,		10 mg/m3	Total dust.

# Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Manganese (CAS 7439-96-5)	TWA	0.1 mg/m3	Inhalable fraction.
,		0.02 mg/m3	Respirable fraction.
Silver (CAS 7440-22-4)	TWA	0.1 mg/m3	Dust and fume.
Flux	Туре	Value	
Barium fluoride (CAS 7787-32-8)	TWA	0.5 mg/m3	
Fluorides, as F (CAS 16984-48-8)	TWA	2.5 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

# Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Manganese (CAS 7439-96-5)	TWA	0.2 mg/m3	
Silver (CAS 7440-22-4)	TWA	0.1 mg/m3	Dust and fume.

# Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Flux	Туре	Value	
Barium fluoride (CAS 7787-32-8)	TWA	0.5 mg/m3	
Fluorides, as F (CAS 16984-48-8)	TWA	2.5 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

# Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	5 mg/m3	Welding fume.
		10 mg/m3	
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	Total dust.
Manganese (CAS 7439-96-5)	STEL	3 mg/m3	Fume.
,	TWA	5 mg/m3	Dust.
		1 mg/m3	Fume.
Silver (CAS 7440-22-4)	TWA	0.1 mg/m3	
Welding fume (CAS -)	TWA	5 mg/m3	Welding fume.
Flux	Туре	Value	Form
Barium fluoride (CAS 7787-32-8)	TWA	0.5 mg/m3	
Fluorides, as F (CAS 16984-48-8)	TWA	2.5 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Total dust.

# **Mexico. Occupational Exposure Limit Values**

Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	5 mg/m3	Pyrophoric powder.
		5 mg/m3	Welding fume.
		10 mg/m3	Dust.
Calcium carbonate (CAS 471-34-1)	STEL	20 mg/m3	
,	TWA	10 mg/m3	
Manganese (CAS 7439-96-5)	STEL	3 mg/m3	Fume.
•	TWA	1 mg/m3	Fume.
		0.2 mg/m3	
Silver (CAS 7440-22-4)	TWA	0.1 mg/m3	
Welding fume (CAS -)	TWA	5 mg/m3	Welding fume.
Flux	Туре	Value	
Barium fluoride (CAS 7787-32-8)	TWA	0.5 mg/m3	
Fluorides, as F (CAS 16984-48-8)	TWA	2.5 mg/m3	
Titanium dioxide (CAS 13463-67-7)	STEL	20 mg/m3	
•	TWA	10 mg/m3	

# **Engineering controls**

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust and fumes. Shower, hand and eye washing facilities near the workplace are recommended.

#### Personal protective equipment

Eye / face protection

Wear safety glasses with side shields (or goggles). When welding, it is recommended that safety glasses, goggles, or face-shield with filter lens of appropriate shade number (per ANSI

Z49.1-1988, "Safety in Welding and Cutting") be worn.

Skin protection

Protective clothing is recommended. When welding, wear protective clothing that protects from sparks and flame (per ANSI Z49.1-1988, "Safety in Welding and Cutting").

Use a respirator when local exhaust or ventilation is not adequate to keep exposures below the Respiratory protection

TLV. In a confined space a supplied respirator may be required. Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

**General hygiene** considerations

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.

# 9. Physical & Chemical Properties

Solid rods that have a metallic luster. **Appearance** 

Physical state Solid. **Form** Solid.

Color Not available. Odor Odorless. Not available. **Odor threshold** Not applicable. Ha 1 mm Hg @1787°C Vapor pressure

Not applicable. Vapor density **Boiling point** 5432 °F (3000 °C) 2795 °F (1535 °C) Melting point/Freezing point

Specific gravity Flash point Flammability limits in air, upper, % by volume

Not available. Not available.

Insoluble. 7.86 @20°C

Flammability limits in air,

lower, % by volume

Solubility (water)

Not available.

**Auto-ignition temperature** Not available.

# 10. Chemical Stability & Reactivity Information

**Chemical stability** Material is stable under normal conditions. Conditions to avoid Contact with incompatible materials.

Strong oxidizing agents. Strong acids. Strong bases. Acetylene. Ammonia. Hydrogen peroxide Incompatible materials

(H2O2). Chlorine. Bromine, iodine, turpentine, magnesium metal. Hydrogen sulfide. Ammonium

**Hazardous decomposition** 

products

Toxic metal oxides are emitted when heated above the melting point. Welding fumes and gases 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.)

Fumes can be reasonably expected to include: Metal oxides. Fluoride fumes.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

# 11. Toxicological Information

#### Toxicological data

Components **Test Results** Species

Calcium carbonate (CAS 471-34-1)

Acute Oral

LD50 Rat 6450 mg/kg

Components	Species	Test Results		
Iron (CAS 7439-89-6)				
Acute				
Oral				
LD50	Rat	30 g/kg		
Manganese (CAS 7439-96-5)				
Acute				
Oral				
LD50	Rat	9000 mg/kg		
Silver (CAS 7440-22-4)				
Acute				
<i>Dermal</i> LD50	Dot	2000 mg/kg		
	Rat	> 2000 mg/kg		
Oral	Dot	. F000 mg/kg		
LD50	Rat	> 5000 mg/kg		
Flux	Species	Test Results		
Calcium fluoride (CAS 7789-75-	-5)			
<b>Acute</b> Oral				
LD50	Rat	4250 mg/kg		
Other	rtat	1250 mg/kg		
LD50	Mouse	2638 mg/kg		
Lithium fluoride (CAS 7789-24-4				
Acute	<del>"</del> )			
Oral				
LD50	Rat	143 mg/kg		
Sensitization	This product is not expected to cause skin sensitization.			
Acute effects	·	When heated, the vapors/fumes given off may cause respiratory tract irritation. High		
Acute ellects	concentrations of freshly for fume fever. Exposure to ex	concentrations of freshly formed fumes/dusts of metal oxides can produce symptoms of metal fume fever. Exposure to extremely high levels of fluorides can cause abdominal pain, diarrheamuscular weakness, and convulsions. In extreme cases it can cause loss of consciousness are		
Local effects	Elevated temperatures or the eye, mucous membrar	mechanical action may form dust and fumes which may be irritating to nes and respiratory tract.		
Chronic effects	Repeated exposure to fluorides may cause excessive calcification of the bone and calcification ligaments of the ribs, pelvis and spinal column. Absorbed fluoride can cause metabolic imbalances with irregular heartbeat, nausea, dizziness, vomiting and seizures. Chronic inhalat of high concentrations of iron oxide fumes or dust may lead to benign pneumoconiosis (sidero Overexposure to manganese fumes may affect the brain and central nervous system, resulting poor coordination, difficulty speaking, and arm or leg tremor. This condition can be irreversible ingestion of silver may cause a permanently benign bluish gray discoloration to the skin (argyr			
Carcinogenicity	Titanium Dioxide is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. Titanium dioxide is considered carcinogenic only when in an inhalable powdered form.			
<b>ACGIH Carcinogens</b>				
Aluminum (CAS 7429- Barium fluoride (CAS 7 Calcium fluoride (CAS 1 Lithium fluoride (CAS 7 Manganese (CAS 743 Titanium dioxide (CAS 1	7787-32-8) A4 Not classifiable as a human carcinogen. A5 7789-75-5) A4 Not classifiable as a human carcinogen. A5 7789-24-4) A6 Not classifiable as a human carcinogen. A6 Not classifiable as a human carcinogen. A7 Not classifiable as a human carcinogen. A7 Not classifiable as a human carcinogen. A7 Not classifiable as a human carcinogen.			
Calcium fluoride (CAS Lithium fluoride (CAS				
CAS I		5 Not oldosinable as to carolingeriloty to Hullians.		

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

**Epidemiology**Based on epidemiological studies, pre-existing pulmonary disorders may be aggravated by

prolonged exposure to high concentrations of metal dust or fumes.

Mutagenicity No data available.

**Reproductive effects**This product is not reported to cause reproductive effects in humans. Manganese metal may

damage the reproductive system and has shown teratogenic effects in laboratory animals.

**Further information** No other specific acute or chronic health impact noted.

# 12. Ecological Information

**Ecotoxicological data** 

Components Species Test Results

Iron (CAS 7439-89-6)

Aquatic

Fish LC50 Channel catfish (Ictalurus punctatus) > 500 mg/l, 96 hours

Magnesium (CAS 7439-95-4)

Aquatic

Fish LC50 Fish <= 100 mg/l

Silver (CAS 7440-22-4)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 0.0019 - 0.003 mg/l, 96 hours

**Ecotoxicity** Alloys in massive forms present a limited hazard for the environment.

Environmental effects Significant environmental persistence and bioaccumulation can be expected.

**Persistence and degradability** The product is not biodegradable.

Bioaccumulation / Accumulation

The product contains potentially bioaccumulating substances.

Mobility in environmental

media

Alloys in massive forms are not mobile in the environment.

#### 13. Disposal Considerations

Waste codes D011: Waste Silver

D005: Waste Barium

**Disposal instructions** Dispose in accordance with all applicable regulations.

Waste from residues / unused

products

Scrapped material should be sent for refining to recover precious metal content. Solid metal and alloys in the form of particles may be reactive. Its hazardous characteristics, including fire and

explosion, should be determined prior to disposal.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

## 14. Transport Information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

**TDG** 

Not regulated as dangerous goods.

# 15. Regulatory Information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Manganese (CAS 7439-96-5)

### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

 Aluminum (CAS 7429-90-5)
 1.0 %

 Barium fluoride (CAS 7787-32-8)
 1.0 % N040

 Manganese (CAS 7439-96-5)
 1.0 %

 Silver (CAS 7440-22-4)
 1.0 %

#### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Aluminum (CAS 7429-90-5)

Barium fluoride (CAS 7787-32-8)

Manganese (CAS 7439-96-5)

Silver (CAS 7440-22-4)

Listed.

Listed.

#### CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

Silver: 1000

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Drug Enforcement

Administration (DEA) (21 CFR

1308.11-15)

Not controlled

Canadian regulations

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification D2A - Other Toxic Effects-VERY TOXIC

D2B - Other Toxic Effects-TOXIC

#### WHMIS labeling



#### Inventory status

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# State regulations

#### US - California Hazardous Substances (Director's): Listed substance

Aluminum (CAS 7429-90-5) Barium fluoride (CAS 7787-32-8) Listed. Calcium fluoride (CAS 7789-75-5) Listed. Fluorides, as F (CAS 16984-48-8) Listed. Iron (CAS 7439-89-6) Listed. Lithium fluoride (CAS 7789-24-4) Listed. Magnesium (CAS 7439-95-4) Listed. Manganese (CAS 7439-96-5) Listed. Silver (CAS 7440-22-4) Listed. Strontium fluoride (CAS 7783-48-4) Listed.

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Titanium dioxide (CAS 13463-67-7) Listed.

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Titanium dioxide (CAS 13463-67-7) Listed: September 2, 2011 Carcinogenic.

#### **US. Massachusetts RTK - Substance List**

Aluminum (CAS 7429-90-5)

Calcium carbonate (CAS 471-34-1)

Magnesium (CAS 7439-95-4)

Manganese (CAS 7439-96-5)

Silver (CAS 7440-22-4)

Titanium dioxide (CAS 13463-67-7)

Listed.

#### US. New Jersey Worker and Community Right-to-Know Act

Aluminum (CAS 7429-90-5)

Barium fluoride (CAS 7787-32-8)

Calcium carbonate (CAS 471-34-1)

Calcium fluoride (CAS 7789-75-5)

Fluorides, as F (CAS 16984-48-8)

Lithium fluoride (CAS 7789-24-4)

Magnesium (CAS 7439-95-4)

Manganese (CAS 7439-96-5)

Silver (CAS 7440-22-4)

Strontium fluoride (CAS 7783-48-4)

Titanium dioxide (CAS 13463-67-7)

# US. Pennsylvania Worker and Community Right-to-Know Law

Aluminum (CAS 7429-90-5)

Calcium carbonate (CAS 471-34-1)

Calcium fluoride (CAS 7789-75-5)

Fluorides, as F (CAS 16984-48-8)

Lithium fluoride (CAS 7789-24-4)

Magnesium (CAS 7439-95-4)

Manganese (CAS 7439-96-5)

Silver (CAS 7440-22-4)

Titanium dioxide (CAS 13463-67-7)

#### 16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

A HMIS® Health rating including an \* indicates a chronic hazard.

**HMIS® ratings** Health: 2\*

Flammability: 0 Physical hazard: 0

**NFPA Ratings** 



Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

Ten Gauge™ / E71T-GS CPH MSDS NA

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