Watts Water Quality and Conditioning Products, Inc.

MATERIAL SAFETY DATA SHEET

MSDS # 40

Date: 04/01/15

Product Name FILOX[™]

MATERIAL SAFETY DATA SHEET

FILOXTM

Company name: Watts Water Quality and Conditioning Products, Inc. Address: 13700 Hwy 90 West State/Country: San Antonio Texas, USA Postal code: 78245 Phone number: (210) 677-8400 Fax: (210) 677-8433

EMERGENCY PHONE NUMBERS (800) 837-2619 (ChemTel)

SECTION 1: PRODUCT AND COMPANY INFORMATION

HMIS (NPCA)	-
HEALTH	2
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	E

FILOX™PRODUCT ID:EFP-044PRODUCT NUMBER:N/AMSDS NUMBER:BCGLPREPARATION DATE:04/2015DESCRIPTION:FILOXis a specially selected granularpyrolusite ore (manganese dioxide) used for water purification – theremoved of heavy metals and sulfur compounds.

PRODUCT INFORMATION:

CAS NUMBER: Mixture. (For ingredient CAS numbers, see SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS.) **SYNONYMS:** No product synonyms. (For ingredient synonyms, see SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS.)

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS PLUS OTHER SIGNIFICANT COMPONENTS:

COMPONENT	SYNONYMS AND TRADE NAMES	CAS#	%BY WT.
Pyrolusite (MnO ₂)	Manganese Dioxide; Manganese Black;		
	Manganese (IV) Oxide; Peroxide	1313-13-9	78-82
	Manganese Superoxide.		

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Nonhazardous Ingredients / Inert Materials	N/A	N/A	17-19
Quartz (SiO ₂)	Agate; Cristobalite; Crystallizes Sillicon Dioxide; Quartz Sillica; Sillica Dust; Sillica Flour (Powdered Crystalline Sillica); Sillica, Crystalline Quartz; Tripoli.	14808-60-7	1-3
Barium compounds (as Ba), comp. of Mn ore ¹	N/A	7440-39-3	ND
Lead (Pb, inorganic compounds) ¹	Glover; Lead flake; Lead inorganic; Lead metal; Plumbum.	7439-92-1	0.01- 0.03

NOTES:

1. These trace metals are not in the free metal form but exist as integral, inorganic, mineralogical constituents in the mineral Ores.

SECTION 3: HAZARDS IDENTIFICATION

Percentage (by wt.)	OSHA		ACGIH TLV		NIOSH REL		LISTED CARCINOGEN (YES / NO)		
	PEL [mg/m ³]	CEILING [mg/m ³]	TWA [mg/m ³]	STEL [mg/m ³]	TWA [mg/m ³]	STEL [mg/m ³]	NTP	IARC	OSHA
78-82	N/A	5F (as Mn)	5 (as Mn)	NL	1 (as Mn)	3 (as Mn)	NO	NO	NO
17-19	1S T; S	NL	10 T; 5R	NL	NL	NL	NO	NO	NO
1-3	10/(% SiO ₂ +2)	NL	0.025	0.1	0.05	NL	YES	YES	YES
ND	0.5 (as Ba)	NL	0.5	NL	0.5	NL	NO	NO	NO
ND	0.05	NL	0.05	NL	0.05	NL	YES	YES	NO
	(by wt.) 78-82 17-19 1-3 ND	(by wt.) PEL [mg/m ³] 78-82 N/A 17-19 1S T; S 1-3 $\frac{10}{(\%}$ SiO ₂ +2) ND 0.5 (as Ba)	PEL [mg/m ³] CEILING [mg/m ³] 78-82 N/A $5F$ (as Mn) 17-19 1S T; S NL 1-3 $10/(\%)$ SiO ₂ +2) NL ND 0.5 (as Ba) NL	PEL [mg/m³] CEILING [mg/m³] TWA [mg/m³] 78-82 N/A $5F$ (as Mn) $5F$ (as Mn) 17-19 1S T; S NL $10 T;$ 5R 1-3 $10/(\%$ SiO ₂ +2) NL 0.025 ND 0.5 (as Ba) NL 0.5	PEL [mg/m³] CEILING [mg/m³] TWA [mg/m³] STEL [mg/m³] 78-82 N/A $5F$ (as Mn) 5 (as Mn) 5 (as Mn) NL 17-19 1S T; S NL $10 T;$ 5R NL NL 1-3 $10/(\%)$ (as Ba) NL 0.025 0.1 ND 0.5 (as Ba) NL 0.5 NL	PEL [mg/m³] CEILING [mg/m³] TWA [mg/m³] STEL [mg/m³] TWA [mg/m³] 78-82 N/A $5F$ (as Mn) 5 (as Mn) 5 (as Mn) 1 (as Mn) 17-19 $1S$ T; S NL 10 T; $5R$ NL 1 (as Mn) 1-3 $\frac{10}{9}$ NL 0.025 0.1 0.05 ND 0.5 (as Ba) NL 0.5 NL 0.5	(by wt.) PEL [mg/m ³] CEILING [mg/m ³] TWA [mg/m ³] STEL [mg/m ³] TWA [mg/m ³] STEL [mg/m ³] 78-82 N/A $5F$ (as Mn) 5 (as Mn) NL 1 (as Mn) 3 (as Mn) 17-19 $1S$ T; S NL 10 T; 5R NL NL NL 1-3 $\frac{10}{SiO_2 + 2}$ NL 0.025 0.1 0.05 NL ND 0.5 (as Ba) NL 0.5 NL 0.5 NL	(by wt.)Image: Second	Percentage (by wt.)OSHAACGIH TLVNIOSH RELCARCINOGI (TES/NO)PEL [mg/m3]CEILING [mg/m3]TWA [mg/m3]STEL [mg/m3]TWA [mg/m3]STEL [mg/m3]NTPIARC78-82N/A $5F$ (as Mn)5 (as Mn)NL1 (as Mn)3 (as Mn)NONO17-19 $1S T$; SiO2 +2)NL $10 T$; SRNLNLNLNLNONO1-3 $10/(\%)$ SiO2 +2)NL0.0250.10.05NLYESYESND 0.5 (as Ba)NL0.5NL0.5NLNONO

NOTES:

T =Total dust; R = Respirable dust, F = Fume

- 1. Exposure limits listed for each ingredient, is for exposure to dust that may be generated during product transfer and handling.
- 2. FILOX is formulated for use in water purification. <u>Health effects resulting from the product being used for any other purpose of process is not addressed in this material safety date sheet.</u>
- 3. NTP Class 2A: Reasonably anticipated to be a carcinogen, limited evidence of carcinogenicity from studies in humans.
- 4. IARC Group 2A: Probably carcinogenic to humans.

EMERGENCY OVERVIEW: Not a fire or spill hazard. Low toxicity; dry dust is a nuisance particulate. Generally, health effects are provided for exposure to dust that may be generated during product transfer and handling.

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POTENCIAL HEALT EFFECTS:

Primary Route of Exposure: Inhalation.

<u>Relevant Route(s) of Exposure</u>:

Eve Contact: Contact with particulate may cause slight to moderate eye irritation. Abrasive action of dust particulate can damage eye.

Skin Contact: Prolonged or repeated contact may cause slight to moderate skin irritation.

Inhalation: Overexposure by inhalation of airborne particulate, dust, or fumes is irritating to the nose, throat, and respiratory tract. Inhalation of excessive levels of dust or fumes may be harmful.

Ingestion: Ingestion is an unlikely route of exposure; no hazard in normal industrial use. Small amounts (<tablespoonful) swallowed during normal handling operations are not likely to cause injury, however, swallowing larger amounts may cause injury. If ingested quantity, may cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting, abdominal pain, and diarrhea.

Target Organs: Respiratory system, eyes, central nervous system.

<u>Acute Effects of Exposure</u>: Excessive, short-term exposure to airborne mineral dusts and particulate may cause upper respiratory and eye irritation. Exposure via inhalation to high concentration of dusts containing manganese compounds for as little three months have effected the central nervous system.

Chronic Effects of Exposure: Excessive, long-term, inhalation of airborne mineral dusts and particulate may contribute to the development of bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease. **Manganese poisoning:** The excessive, chronic inhalation of manganese compounds usually begins with complaints of languor and sleepiness. This is followed by weakness in the legs and the development of stolid, mask-like faces. The patient speaks with a slow monotonous voice. Then muscular twitching appear, varying from a fine tremor of the hands to coarse, rhythmical movements of the arms, legs, and trunk. There is a slight increase in tendon reflexes, ankle and patellar clonus, and a typical Parkinsonian slapping gate.

Signs and Symptoms of Exposure: (Dust) tearing of eyes, burning sensation in the throat, cough, chest discomfort.

<u>Medical Conditions Generally Known to be Aggravated by Exposure</u>: The excessive inhalation of mineral dust may aggravate pre-existing chronic lung conditions such as, but not limited to, bronchitis, emphysema, and asthma.

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<u>Reproductive Hazards</u>: Not reproductive hazards.

<u>POTENTIAL ENVIRONMENTAL EFFECTS</u>: Derived from natural ores; no adverse environment effects known. However, prevent spilled product from entering streams, water bodies, and wastewater systems. This material is used as an agricultural product.

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES:

Eve Contact: Remove material by immediately flushing eyes with clean, flowing, lukewarm water (low pressure) for at least 15 minutes. Get medical attention if pain or irritation persists.

Skin Contact: Immediately wash affected area with mild soap and water to remove any dust adhering to the skin. Get medical attention if irritation develops or persists.

Inhalation: If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop. If not breathing, give artificial respiration or give oxygen by trained personnel, and get medical attention.

Ingestion: Ingestion is an unlikely route of exposure. If ingested in sufficient quantity and victim is conscious, give 1-2 glasses of water or milk. Never give anything by mouth to an unconscious person. Leave decision to induce vomiting to qualified medical personnel, since particles may be aspirated into the lungs. Seek immediate medical attention.

NOTE TO PHYSICIANS: None.

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Material will not burn. Although not combustible, this material is a strong oxidizing agent, which liberates oxygen during thermal decomposition. It may increase the burning rate of combustibles with a flare-burning effect. It may cause reignition after a fire is extinguished.

EXTINGUISHING MEDIA: Use dry chemical or CO_2 to extinguish fires involving this material.

PROTECTION FOR FIREFIGHTERS: Material should be kept out of eyes and of skin. As in any fire, wear self-contained breathing apparatus pressure-demand. MSHA/NIOSH (approved or

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equivalent) and full protective gear. Do not release runoff from fire control methods to sewers or waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

<u>CONTAINMENT</u>: Products is dry solid (granular or powder) and not readily soluble in water. However, prevent spilled product from entering streams, water bodies, and wastewater systems.

CLEANUP: Vacuum or sweep up dry material and place in a container for reuse. Avoid creating excessive airborne dust. Cleanup personnel need to wear approved respiratory protection (airpurifying or air-supply), gloves, long, sleeved clothing and goggles to prevent irritation from contact and inhalation.

<u>COLLECTION</u>: If possible, collect and reuse spilled product.

<u>REPORTING</u>: SEE SECTION 15: REGULATORY INFORMATION

EVACUATION: Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

SECTION 7: HANDLING AND STORAGE

HANDLING: Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with skin and eyes.

STORAGE: Store in a cool, dry area. Keep container closed when not in use. Product or component is a powerful oxidizer, hence it should not stored near organic matter or other easily oxidizable substances, e.g., sulfur, sulfides, phosphides, hypophosphides, etc. or incompatible materials such as hydrogen peroxide and sodium peroxide.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limits in SECTION 2.

PERSONAL PROTECTIVE EOUIPMENT:

Eve & Face Protection: Corrosive to eyes. Wear protective safety goggles when dust generation is likely.

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Skin Protection: Wear clothing sufficient to cover the skin, safety shoes, and leather gloves for hand protection against dry material.

<u>Respiratory Protection</u>: Use NIOSH/MSHA approved respiratory protection (air purifying or air supplying) when concentrations are above exposure limit value. A respiratory protection program that meets OSHA 29 CFR part 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

<u>General Hygiene Considerations</u>: Wash thoroughly after using product. Wash contaminated clothing. Wash hands before eating or drinking.

EXPOSURE GUIDELINES: See SECTION 2.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<u>APPEARANCE</u>: A uniform, brownish-black, granular material.

ODOR: Odorless.

PHYSICAL/CHEMICAL/PROPERTIES:

Bulk density:	72 lbs/ft ³	Freeze Point:	Solid at STP	% volatile by vol:	1-2% H ₂ O
Water Solubility:	Slight	Melting Point:	>2800 °F	Vapor Density:	N/A
pH: (10% aqueous slurry)	9-10	Boiling Point:	N/A	Vapor Pressure:	N/A

SECTION 10: STABILITY AND REACTIVITY

<u>STABILITY</u>: Stable under normal conditions of storage.

<u>CONDITIONS TO AVOID</u>: None under normal conditions.

MATERIALS TO AVOID: Pyrolusite (MnO₂) is a powerful oxidizer, hence it should not be heated or rubbed with organic matter or other easily oxidizable substances, e.g., sulfur, sulfides, phosphides, hypophosphides, etc. Material is flammable by chemical reaction. Incompatible with hydrogen peroxide and sodium peroxide. Keep away from heat and flammable materials.

HAZARDOUS DECOMPOSITION PRODUCTS: None under normal conditions.

HAZARDOUS POLYMERIZATION: Will not occur.

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SECTION 11: TOXICOLOGICAL PROPERTIES

RTECS TOXICITY DATA FOR PRODUCT COMPONENTS:

COMPONENT	CAS#	RTECS TOXICITY DATA
Pyrolusite (MnO ₂)	1313-13-9	Acute Dermal: Mouse LD 50 Route; Subcutaneous Dose: 422mg/kg. Chronic (Multiple Dose) Inhalation: Rate Dose: 1800 ug/m ³ /24H/35D-C; Toxic Effects: Brain and coverings – Recordings from specific areas of CNS; Blood – Charges in serum composition; Biochemical – True chollinesterase. Reproductive/Teratogenic: Mouse Route: Inhalation; Dose: 49 mg/m ³ /7H; Duration: female 75D prior to mating Effects on Newborn – Growth statistics; Behavioral.
Nonhazardous Ingredients / Inert Materials	N/A	N/A
Quartz (SiO ₂)	14808-60- 7	Acute Inhalation: Human LC Lo Dose: 300 ug/m ³ /10Y-l; Toxic Effects: Liver – Other changes; Human TC Lo Dose: 16 mppcf/8H/17,9Y-l; Toxic Effects: Lungs, Thorax of Respiration –Fibrosis, focal (pneumoconiosis); Lungs, Thorax, of Respiration – Cough; Lungs, Thorax, of Respiration – Dyspnea. Chronic (Multiple Dose) Inhalation: Rat Dose: 80 mg/m ³ /28W-l; Toxic Effects: Lungs, Thorax of Respiration – Fibrosis, focal (pneumoconiosis); Blood – Changes in spleen. Rat Dose: 108mg/m ³ /6H/3D-l; Toxic Effects: Biochemical – Phosphatases; Biochemical – Other oxidoreductases; Biochemical – Other proteins: Rat Dose: 58 mg/m ³ /13W-l; Toxic Effects: Lungs, Thorax of Respiration – Other changes: Endocrine – Changes in thymus weight; Blood –Changes in leukocyte (WBC) cell count. Rat Dose: 1475 mg/m ³ /8H21W-l; Toxic effects: Lungs, Thorax, of Respiration – Other changes. Rat Dose: 4932 mg/m ³ /24H/39W-C; Toxic Effects: Endocrine –Changes in spleen weight. Immunological including allergic – Decrease in humoral immune response. Rat Dose: 28 mg/m ₃ /3W-l; Toxic Effects: Lungs, Thorax of Respiration – Changes in lung weight. Biochemical – Other enzymes. Mutagenic: Human Micronucleus Test: Cell Type: lung, Dose: 40 mg/cm ² . Hamster Micronucleus Test: Cell type: lung; Dose: 160 mg/cm ² . Tumorgenic: Rat Route: Inhalation: Dose 50

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		mg/m ³ /6H/71W-1: Toxic Effects: Tumorgenic by RTECS, criterie: Liver, Tumors, Rat Route Dose: 50 mg/kg: Toxic Effects: Tumorgenic – tumorgenic agent by RTECS criteria; Blood – including Hodghins disease.	e: Intravenous: - Equivocal			
Barium Compounds (as Ba) comp. of Mn ore	^{h)} 7440-39-3 NO RTECS TOXICITY DATA AVAILABLE.					
Lead (Pb, inorganic compounds)	7439-92-1	Acute oral: Woman TD Lo Dose: 450 mg/kg/ Effects: Peripheral nerve and sensation – Flact without anesthesia; Behavioral – Hallucination perception; Behavioral – Muscle weakness, P Dose: 160 mg/kg. Acute inhalation: Human TC Lo Dose: 10∝g/n Effects: Gastrointestinal – Gastritis; Liver – O Reproductive/Teratogenic: Rat route; Oral; D Duration: multigeratons: Effects on Embryo o Fetotoxicity: Fetal death. Rat Route: Oral; Do Duration: female 140 prior to mating Effects on Behavioral. Rat Route: Oral; Dose: 520 mg/kg female 7-22D of pregnancy: Effects on Newb Biochemical and metabolic. Rat Route: Oral; mg/kg: Duration: female 1-22D of pregnancy; Developmental Abnormalities – Blood and lyn (including spleen and marrow); Effects on New statistics. Rat Route: Inhalation; Dose: 10 mg/ Duration: female 1-21D of pregnancy; Effects Fetus – Fetotoxicity; Specific Developmental Blood and lymphatic systems (Including spleer Rat Route: Inhalation; Dose: 3 mg/m ³ /24H; I 21D of pregnancy: Effects on Newborn – Bio metabolic. Mutagenic: Human Cytogenetic An Unreported; Dose: 50 ug/m ³ . Monkey Cytoger Route: Oral; Dose: 42 mg/kg/3W.	cid paralysis ns, distorted igeon LD Lo n ³ ; Toxic ther changes. ose: 780 mg/kg; r Fetus – se: 1140 mg/kg; on Newborn – g; Duration: orn – Dose: 1100 Specific nphatic systems ewborn – Growth (m ³ /24H- son Embryo or Abnormalities – en and marrow). Duratio: female 1- chemical and nalysis; Route:			

SECTION 12: ECOLOGICAL INFORMATION

Derived from mineral ores. No data available on any adverse effects of this material on the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

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RCRA: This product as manufactured, is not a RCRA, listed hazardous waste and does not exhibit any characteristics of a hazardous waste, including toxicity (by EPA TCLP method.)

DISPOSAL METHOD: This product is generally suitable for landfill disposal. Follow all applicable Federal, State, and local laws, rules, and regulations regarding the proper disposal of this material. If this product has been altered or contaminated with other hazardous materials, appropriate waste analysis may be necessary to determine proper method for disposal. A qualified environmental professional should determine waste characterization, disposal, and treatment methods for this material in accordance with applicable Federal, State and local regulations and requirements.

SECTION 14: TRANSPORTATION INFORMATION

USDOT INFORMATION: This product is not regulated by USDOT as a hazardous material (49 CFR part 172.101). No UN code assigned. No placard required for transportation.

LABEL:

CAUTION: Avoid contact with eyes, skin, and clothing. Wash thoroughly, after handling and use. Keep is a closed container in a well-ventilated area.

FIRST AID MEASURES:

Eve Contact: Remove material by immediately flushing eyes with clean, flowing, lukewarm water (low pressure) for at least 15 minutes. Get medical attention if pain on irritation persists.

Skin Contact: Immediately wash affected area with mild soap and water to remove any dust adhering to the skin. Get medical attention irritation develops or persists.

Inhalation: If exposed to excessive levels if dust or fumes, remove to fresh air and get medical attention of cough or other symptoms develop. If not breathing, give artificial respiration or give oxygen by trained personnel, and get medical attention.

Ingestion: Ingestion is an unlikely route of exposure. If ingested in sufficient quantity and victim is conscious, give 1-2 glasses of water or milk. Never give anything by mouth to an unconscious person. Leave decision to induce vomiting to qualified medical personnel, since particle may be aspirated into the lungs. Seek immediate medical attention.

SECTION 15: REGULATORY INFORMATION

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COMPONENTS LISTED IN FEDERAL REGULATIONS AND STATE "RIGHT-TO-KNOW" LAWS:

		FEDERAL				STATE (Right-to-Know)				
COMPONENT	CAS#	RCRA	CERCLA	SARA	SARA EHS	TSCA	PA	NJ	MA	CA
Pyrolusite (MnO ₂)	1313-13-9	NO	YES ¹	YES (as compo und)	NO	YES	NO	NO	NO	NO
Nonhazardous Ingredients / Inert Materials	N/A	NO	NO	NO	NO	NO	NO	NO	NO	NO
Quartz (SiO ₂)	14808-80-7	NO	NO	NO	NO	YES	YES	NO	YES	NO
Barium Compounds (as Ba) comp. of Mn ore	7440-39-3	NO	NO	YES	NO	YES	YES	YES	YES	NO
Lead (Pb, Organic compounds)	7439-92-1	NO	YES ²	YES	NO	YES	YES	YES	YES	YES

NOTES:

1. Listed as Compound per CAA Section 1 12.

2. Listed per CWA Section 307(a) RQ: 10 lb (4.535 kg).

3. Listed as compound.

SECTION 16: OTHER INFORMATION

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM of the National Paint & Coatings Association

HEALTH

- 0-Normal Material
- 1 Slightly Hazard/Significant Irritation
- 2 Hazardous / Temporary incapacitation or residual injury
- 3 Extreme Danger/Serious or permanent injury
- 4 Deadly

REACTIVITY

- 0 Stable
- 1 Unstable under heat or pressure
- 2 Violent chemical change under heat or pressure
- 3 Shock and heat may detonate
- 4 Capable of Detonation or Explosion

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FLAMMABILITY

- 0 Will not burn
- 1 Must be preheated before ignition will occur (Flash point greater than 200°F)
- 2 Must be moderately heated before ignition will occur (Flash point 100°F to 200°F)
- 3 Can be ignited under almost all ambient temperatures (Flash point 73°F to 100°F)
- 4 Will rapidly or completely vaporize at atmospheric pressure and normal ambient temperature,
- or will burn readily when dispersed in air (Flash point below 73°F)

PERSONAL PROTECTION

- A Safety Glasses
- $B-Safety\ Glasses+Gloves$
- $C-Safety\ Glasses+Gloves+Apron$
- D Face Shield + Gloves + Apron
- E Safety Glasses + Gloves + Dust Respirator
- F Safety Glasses + Gloves + Apron + Dust Respirator
- G Safety Glasses + Gloves + Vapor Respirator
- H Splash Goggles + Gloves + Apron + Vapor Respirator
- I Safety Glasses + Gloves + Dust and Vapor Respirator
- J Splash Goggles + Gloves + Apron + Dust and Vapor Respirator
- K Air Line Hood or Mask + Gloves + Full Suit Boots
- X Ask supervisor or safety specialist for handing instructions

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