# wieland concast

# SAFETY DATA SHEET

# 1. Identification

Product identifier	Silicon Bronze Alloy	
Other means of identification		
SDS number	11	
Product code		, C87300, C87400, C87500, C87600, C87850
Recommended use	Manufacturing	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier		
Company name	Wieland Concast	
Address	14315 State Route 113	
	Wakeman, OH 44889	
	United States of America	
E-mail	sales.concast@wieland.com	
Telephone	1-440-965-4455	
Emergency telephone	CHEMTREC (24-hrs)	
	1-800-424-9300	
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Carcinogenicity	Category 2
	Reproductive toxicity (fertility, the unborn	Category 1A
	child)	
	Reproductive toxicity	Effects on or via lactation
OSHA defined hazards	Combustible dust	
Label elements		
	Danger	
Signal word	Danger	
	May form combustible dust concentrations in	air. Suspected of causing cancer. May damage
Signal word Hazard statement	0	
Signal word Hazard statement Precautionary statement	May form combustible dust concentrations in fertility or the unborn child. May cause harm	to breast-fed children.
Signal word Hazard statement	May form combustible dust concentrations in fertility or the unborn child. May cause harm Obtain special instructions before use. Do no and understood. Prevent dust accumulation t	to breast-fed children. ot handle until all safety precautions have been read to minimize explosion hazard. Keep away from
Signal word Hazard statement Precautionary statement	May form combustible dust concentrations in fertility or the unborn child. May cause harm Obtain special instructions before use. Do no and understood. Prevent dust accumulation t heat/sparks/open flames/hot surfaces No s	to breast-fed children. In handle until all safety precautions have been read to minimize explosion hazard. Keep away from smoking. Keep container tightly closed. Ground/bond
Signal word Hazard statement Precautionary statement	May form combustible dust concentrations in fertility or the unborn child. May cause harm Obtain special instructions before use. Do no and understood. Prevent dust accumulation t heat/sparks/open flames/hot surfaces No s container and receiving equipment. Do not bu	to breast-fed children. In thandle until all safety precautions have been read to minimize explosion hazard. Keep away from smoking. Keep container tightly closed. Ground/bond reathe dust. Avoid contact during pregnancy/while
Signal word Hazard statement Precautionary statement	May form combustible dust concentrations in fertility or the unborn child. May cause harm of Obtain special instructions before use. Do no and understood. Prevent dust accumulation the heat/sparks/open flames/hot surfaces No s container and receiving equipment. Do not be nursing. Wash thoroughly after handling. Do Wear protective gloves/protective clothing/ey	to breast-fed children. It handle until all safety precautions have been read to minimize explosion hazard. Keep away from smoking. Keep container tightly closed. Ground/bond
Signal word Hazard statement Precautionary statement	May form combustible dust concentrations in fertility or the unborn child. May cause harm to Obtain special instructions before use. Do not and understood. Prevent dust accumulation to heat/sparks/open flames/hot surfaces No s container and receiving equipment. Do not be nursing. Wash thoroughly after handling. Do Wear protective gloves/protective clothing/ey hygiene practices.	to breast-fed children. to breast-fed children. to handle until all safety precautions have been read to minimize explosion hazard. Keep away from smoking. Keep container tightly closed. Ground/bond reathe dust. Avoid contact during pregnancy/while not eat, drink or smoke when using this product. re protection/face protection. Observe good industrial
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Signal word Hazard statement Precautionary statement Prevention	May form combustible dust concentrations in fertility or the unborn child. May cause harm to Obtain special instructions before use. Do not and understood. Prevent dust accumulation to heat/sparks/open flames/hot surfaces No s container and receiving equipment. Do not be nursing. Wash thoroughly after handling. Do Wear protective gloves/protective clothing/ey hygiene practices. If exposed or concerned: Get medical advice	to breast-fed children. bt handle until all safety precautions have been read to minimize explosion hazard. Keep away from smoking. Keep container tightly closed. Ground/bond reathe dust. Avoid contact during pregnancy/while not eat, drink or smoke when using this product. re protection/face protection. Observe good industrial //attention. Take off contaminated clothing and wash
Signal word Hazard statement Precautionary statement Prevention Response	May form combustible dust concentrations in fertility or the unborn child. May cause harm to Obtain special instructions before use. Do not and understood. Prevent dust accumulation to heat/sparks/open flames/hot surfaces No s container and receiving equipment. Do not be nursing. Wash thoroughly after handling. Do Wear protective gloves/protective clothing/ey hygiene practices. If exposed or concerned: Get medical advice it before reuse. In case of fire: Use appropria Store locked up.	to breast-fed children. to breast-fed children. to handle until all safety precautions have been read to minimize explosion hazard. Keep away from smoking. Keep container tightly closed. Ground/bond reathe dust. Avoid contact during pregnancy/while not eat, drink or smoke when using this product. re protection/face protection. Observe good industrial //attention. Take off contaminated clothing and wash
Signal word Hazard statement Precautionary statement Prevention Response Storage	May form combustible dust concentrations in fertility or the unborn child. May cause harm to Obtain special instructions before use. Do not and understood. Prevent dust accumulation to heat/sparks/open flames/hot surfaces No s container and receiving equipment. Do not be nursing. Wash thoroughly after handling. Do Wear protective gloves/protective clothing/ey hygiene practices. If exposed or concerned: Get medical advice it before reuse. In case of fire: Use appropria Store locked up.	to breast-fed children. to breast-fed children. to minimize explosion hazard. Keep away from smoking. Keep container tightly closed. Ground/bond reathe dust. Avoid contact during pregnancy/while not eat, drink or smoke when using this product. re protection/face protection. Observe good industrial v/attention. Take off contaminated clothing and wash te media to extinguish.
Signal word Hazard statement Precautionary statement Prevention Response Storage Disposal Hazard(s) not otherwise	May form combustible dust concentrations in fertility or the unborn child. May cause harm Obtain special instructions before use. Do no and understood. Prevent dust accumulation the heat/sparks/open flames/hot surfaces No s container and receiving equipment. Do not be nursing. Wash thoroughly after handling. Do Wear protective gloves/protective clothing/ey hygiene practices. If exposed or concerned: Get medical advice it before reuse. In case of fire: Use appropria Store locked up. Dispose of contents/container in accordance	to breast-fed children. to breast-fed children. to minimize explosion hazard. Keep away from smoking. Keep container tightly closed. Ground/bond reathe dust. Avoid contact during pregnancy/while not eat, drink or smoke when using this product. re protection/face protection. Observe good industrial v/attention. Take off contaminated clothing and wash te media to extinguish.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Copper	7440-50-8	74 - 94
Zinc	7440-66-6	0.2 - 16
Aluminum	7429-90-5	0 - 7.6
Silicon	7440-21-3	1.5 - 5.5
Manganese	7439-96-5	0 - 1.5
Lead	7439-92-1	0 - 0.8

**Composition comments** 

All concentrations are in percent by weight unless otherwise indicated. Components not listed are either non-hazardous or are below reportable limits.

#### st aid **--**:

4. First-aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing and wash skin with soap and water. Get medical attention if irritation develops and persists. In case of contact with hot or molten product, cool rapidly with water and seek immediate medical attention. Do not attempt to remove molten product from skin because skin will tear easily. Cuts or abrasions should be treated promptly with thorough cleansing of the affected area.
Eye contact	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth thoroughly if dust is ingested. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye, mucous membranes and respiratory tract. Prolonged exposure may cause chronic effects. Contact with hot material can cause thermal burns which may result in permanent damage.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Special powder against metal fires. Dry sand. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
Unsuitable extinguishing media	Do not use water or halogenated extinguishing media. Hot molten material will react violently with water resulting in spattering and fuming.
Specific hazards arising from the chemical	Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. Contact with acids will release flammable hydrogen gas. During fire, gases hazardous to health may be formed. Combustion products may include: metal oxides. In a fire, nickel may form nickel carbonyl, a highly toxic substance and known carcinogen.
Special protective equipment	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters **Fire fighting** In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. equipment/instructions **Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials. General fire hazards Solid metal is not flammable; however, finely divided metallic dust or powder may form an explosive mixture with air.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Use only non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
	significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Minimize dust generation and accumulation. Collect dust using a vacuum cleaner equipped with HEPA filter. The product is immiscible with water and will sediment in water systems. Stop the flow of material, if this is without risk. Allow molten material to cool and solidify before disposal. Recover and recycle, if practical. Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water. Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Never return spills to original containers for re-use. Put material in suitable, covered, labeled
Environmental precautions	containers. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.
•	Avoid discharge into drains, water courses of onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces No smoking. Combustible dust clouds may be created where operations produce fine material (dust). Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA-654). Explosion-proof general and local exhaust ventilation.
	Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### **Occupational exposure limits**

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Components	Туре	Value	
Lead (CAS 7439-92-1)	TWA	0.05 mg/m3	
US. OSHA Table Z-1 Limits for Air Components	Contaminants (29 CFR 1910.100 Type	0) Value	Form
Aluminum (CAS 7429-90-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		1 mg/m3	Respirable dust.
Copper (CAS 7440-50-8)	PEL	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
Manganese (CAS 7439-96-5)	Ceiling	5 mg/m3	Fume.
Silicon (CAS 7440-21-3)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 1910 Components	0.1000) Type	Value	Form
Aluminum (CAS 7429-90-5)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Silicon (CAS 7440-21-3)	TWA	5 mg/m3	Respirable fraction.

Components	T	уре			Value	Form
					15 mg/m3	Total dust.
					50 mppcf	Total dust.
					15 mppcf	Respirable fraction.
US. ACGIH Threshold Lim Components		уре			Value	Form
Aluminum (CAS 7429-90-5)	יד	WA			1 mg/m3	Respirable fraction.
Copper (CAS 7440-50-8)	יד	WA			1 mg/m3	Dust and mist.
					0.2 mg/m3	Fume.
Lead (CAS 7439-92-1)	יד	WA			0.05 mg/m3	
Manganese (CAS 7439-96-5)	יד	WA			0.1 mg/m3	Inhalable fraction.
					0.02 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide Components		ds ype			Value	Form
Aluminum (CAS 7429-90-5)	יד	WA			5 mg/m3	Respirable.
					5 mg/m3	Welding fume or pyrophoric powder.
					10 mg/m3	Total
Copper (CAS 7440-50-8)	יד	WA			1 mg/m3	Dust and mist.
					0.1 mg/m3	Fume.
Lead (CAS 7439-92-1)	יד	WA			0.05 mg/m3	
Manganese (CAS 7439-96-5)	S	TEL			3 mg/m3	Fume.
	יד	WA			1 mg/m3	Fume.
Silicon (CAS 7440-21-3)	יד	WA			5 mg/m3	Respirable.
					10 mg/m3	Total
ogical limit values ACGIH Biological Exposu Components	re Indices Value		Determinant	Specimen	Sampling	Time
Lead (CAS 7439-92-1)	200 µg/l		Lead	Blood	*	
* - For sampling details, plea						
ropriate engineering trols	Ventilation rates exhaust ventilati	s sho ion, c If ex	uld be matched to or other engineerir	conditions. If ig controls to	applicable, use p maintain airborne	ventilation should be used process enclosures, local e levels below recommend in airborne levels to an
vidual protection measures		-				
Eye/face protection	required for welc is recommended	ding, d tha	burning, sawing,	orazing, grind oggles, or fac	ing or machining ce-shield with filte	safety glasses or goggles operations. When welding r lens of appropriate shade orn.
Skin protection						
Hand protection						material is heated, wear nmended by the glove
Other	Wear appropriat	te ch	emical resistant cl	othing. Use o	f an impervious a	pron is recommended.
Respiratory protection						ey must use appropriate 0.134) and use NIOSH/MS

**Thermal hazards** 

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Observe any medical surveillance requirements. When using, do not eat, drink or smoke. 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 and chemical properties

# Appearance

Appearance	
Physical state	Solid.
Form	Shapes, Solids, Tubes & Turnings.
Color	Yellow.
Odor	None.
Odor threshold	Not applicable.
рН	Not applicable (material is insoluble in water).
Melting point/freezing point	1680.8 °F (916 °C)
Initial boiling point and boiling range	Property has not been measured.
Flash point	Not applicable, material is a solid.
Evaporation rate	Not applicable, material is a solid.
Flammability (solid, gas)	Fine particles may form explosive mixtures with air.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Property has not been measured.
Explosive limit - upper (%)	Property has not been measured.
Vapor pressure	Not applicable, material is a solid.
Vapor density	Not applicable, material is a solid.
Relative density	8.3 (Water=1)
Solubility(ies)	
Solubility (water)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not applicable, product is a mixture.
Auto-ignition temperature	Property has not been measured.
Decomposition temperature	Property has not been measured.
Viscosity	Not applicable, material is a solid.
Other information	
Bulk density	0.3 lb/in³ (68 °F (20 °C))
Density	8.3 g/cm <sup>3</sup>
Explosive properties	Not explosive.
Kinematic viscosity	Not applicable, material is a solid.
Oxidizing properties	Not oxidizing.
Particle size	Property has not been measured.

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Contact with strong acids will release highly flammable hydrogen gas.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials. Minimize dust generation and accumulation.
Incompatible materials	Strong oxidizing agents. Acids.
Hazardous decomposition products	Decomposition is not expected under normal conditions of use and storage.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful. Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the mucous membranes and respiratory tract. Heating above the melting point releases metallic oxides which may cause metal fume fever by inhalation. The symptoms are shivering, fever, malaise and muscular pain.
Skin contact	Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the skin. Hot or molten material may produce thermal burns.
Eye contact	Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eyes. Molten material will produce thermal burns.
Ingestion	Dust: May cause discomfort if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye, mucous membranes and respiratory tract. Prolonged exposure may cause chronic effects. Contact with hot material can cause thermal burns which may result in permanent damage.

#### Information on toxicological effects

Acute toxicity	Not expected to be acutely to	xic.			
Components	Species	Test Results			
Silicon (CAS 7440-21-3)					
<u>Acute</u>					
Oral					
LD50	Rat	3160 mg/kg			
Skin corrosion/irritation	May cause irritation through n	nechanical abrasion.			
Serious eye damage/eye irritation	Dust or powder may cause m	echanical eye irritation.			
Respiratory or skin sensitization	1				
Respiratory sensitization	Not a respiratory sensitizer.				
Skin sensitization	This product is not expected t	o cause skin sensitization.			
Germ cell mutagenicity	No data available to indicate provide the mutagenic or genotoxic.	product or any components present at greater than 0.1% are			
Carcinogenicity	Suspected of causing cancer.				
IARC Monographs. Overall	Evaluation of Carcinogenicity				
Lead (CAS 7439-92-1) NTP Report on Carcinogens	6	2B Possibly carcinogenic to humans.			
Lead (CAS 7439-92-1) OSHA Specifically Regulate	d Substances (29 CFR 1910.1	Reasonably Anticipated to be a Human Carcinogen. 001-1053)			
Not listed.					
Reproductive toxicity	May cause harm to breastfed	babies. May damage fertility. May damage the unborn child.			
Specific target organ toxicity - single exposure	Not classified.				
Specific target organ toxicity - repeated exposure	Not classified.				
Aspiration hazard	Not an aspiration hazard.				
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.				
	Lead may produce maternal toxicity, toxicity to the fetus, and adverse effects to blood, bone marrow, central/peripheral nervous systems, kidney, liver, and reproductive system.				
	can result in "manganism," a	g low levels of manganese dust or fume over a long period of time disease of the central nervous system similar to Parkinson's scle spasms and behavioral changes.			

Further information Welding or plasma arc cutting of metal and alloys can generate ozone, nitric oxides and ultraviolet radiation. Short-term (acute) overexposure to welding fumes 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). Ozone overexposure may result in mucous membrane irritation or pulmonary discomfort. UV radiation can cause skin erythema and welders flash.

### 12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. Alloys in massive forms present a limited hazard for the environment.

Dust: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Components		Species	Test Results		
Copper (CAS 7440-50-8)					
Aquatic					
Chronic					
Other	NOEC	Juga plicifera	6 µg/l		
ersistence and degradability	The produ	The product solely consists of inorganic compounds which are not biodegradable.			
oaccumulative potential	The produ	ct contains potentially bioaccur	nulating substances.		
obility in soil	Alloys in n	nassive forms are not mobile in	the environment.		
her adverse effects		This product contains one or more substances identified as hazardous air pollutants (HAPs) per the US Federal Clean Air Act (see section 15).			

#### 13. Disposal considerations

Disposal instructions	Recover and recycle, if practical. Consult authorities before disposal. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

# Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

#### 15. Regulatory information

US federal regulations	This product is a "Hazardous Standard, 29 CFR 1910.120	Chemical" as defined by the OSHA Hazard Communication
TSCA Section 12(b) Ex	oport Notification (40 CFR 707	Subpt. D)
Lead (CAS 7439-92	2-1)	0.1 % Annual Export Notification required.
CERCLA Hazardous Se	ubstance List (40 CFR 302.4)	
Copper (CAS 7440-	-50-8)	Listed.
Lead (CAS 7439-92	2-1)	Listed.
Manganese (CAS 7	′439-96-5)	Listed.
SARA 304 Emergency	release notification	

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Lead (CAS 7439-92-1)

Reproductive toxicity Central nervous system Kidney Blood Acute toxicity

**Toxic Substances Control Act (TSCA)** 

All components of the mixture on the TSCA 8(b) inventory are designated "active".

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

#### SARA 302 Extremely hazardous substance

Not listed.	
SARA 311/312 Hazardous chemical	Yes
Classified hazard categories	Combustil Carcinoge

#### ble dust Carcinogenicity Reproductive toxicity

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Aluminum	7429-90-5	0 - 7.6
Copper	7440-50-8	74 - 94
Lead	7439-92-1	0 - 0.8
Manganese	7439-96-5	0 - 1.5

#### Other federal regulations

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

Lead (CAS 7439-92-1)

Manganese (CAS 7439-96-5)

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

#### **US** state regulations

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

Aluminum (CAS 7429-90-5) Copper (CAS 7440-50-8) Lead (CAS 7439-92-1) Manganese (CAS 7439-96-5) Silicon (CAS 7440-21-3)

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

Aluminum (CAS 7429-90-5) Copper (CAS 7440-50-8) Lead (CAS 7439-92-1) Manganese (CAS 7439-96-5) Silicon (CAS 7440-21-3)

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

Aluminum (CAS 7429-90-5) Copper (CAS 7440-50-8) Lead (CAS 7439-92-1) Manganese (CAS 7439-96-5) Silicon (CAS 7440-21-3)

#### **US. Rhode Island RTK**

Aluminum (CAS 7429-90-5) Copper (CAS 7440-50-8) Lead (CAS 7439-92-1) Manganese (CAS 7439-96-5) Silicon (CAS 7440-21-3)

#### **California Proposition 65**



WARNING: This product can expose you to Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed da	te/Carcinogenic substance
Lead (CAS 7439-92-1)	Listed: October 1, 1992
California Proposition 65 - CRT: Listed da	te/Developmental toxin
Lead (CAS 7439-92-1)	Listed: February 27, 1987
California Proposition 65 - CRT: Listed da	te/Female reproductive toxin
Lead (CAS 7439-92-1)	Listed: February 27, 1987
California Proposition 65 - CRT: Listed da	te/Male reproductive toxin
Lead (CAS 7439-92-1)	Listed: February 27, 1987
US. California. Candidate Chemicals List. subd. (a))	Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3,
Aluminum (CAS 7429-90-5) Copper (CAS 7440-50-8)	
Lead (CAS 7439-92-1)	

International Inventories

Manganese (CAS 7439-96-5)

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply 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).

# 16. Other information, including date of preparation or last revision

Issue date	13-October-2012
Revision date	13-May-2022
Version #	04
Further information	Refer to: OSHA 3371-08 2009, Hazard Communication Guidance for Combustible Dusts NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids
HMIS® ratings	Health: 4* Flammability: 2 Physical hazard: 0
NFPA ratings	
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