

SAFETY DATA SHEET

1. Identification

Product identifier Tin Bronze Alloys

Other means of identification

SDS number 12

Product code C90200, C90300, C90500, C90700, C90800, C90810, C91000, C91100, C91300, C91400,

C91600, C91700, C94700, C94800, CuSn10-C, CuSn11Pb2, CuSn12Ni2, CuSn14, CuSn8NiP,

Cu2.5Sn.P, Cu90/Sn10, BM304, BM307, BM309, Gears

Manufacturing Recommended use Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Concast Metal Products Company

14315 State Route 113, Birmingham, OH 44816 **Address**

Telephone 1-440-965-4455 E-mail sales@concast.com 1-800-424-9300 **Emergency phone number** Chemtrec (24-hrs)

2. Hazard(s) identification

Not classified. **Physical hazards**

Health hazards Category 4 Acute toxicity, oral

> Acute toxicity, inhalation Category 4 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Sensitization, skin Category 1 Carcinogenicity Category 2 Reproductive toxicity Category 1A

Reproductive toxicity Effects on or via lactation

Specific target organ toxicity, single exposure Category 1 (cardiovascular system, kidney,

Specific target organ toxicity, repeated Category 1 (blood, bone, central nervous

exposure

system, kidneys, Lungs)

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Category 1

Hazardous to the aquatic environment,

long-term hazard

Category 2

OSHA defined hazards Combustible dust

Label elements



Signal word

Hazard statement May form combustible dust concentrations in air. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. Suspected of causing cancer. May damage fertility or the unborn child. May cause harm to breast-fed children. Causes damage to organs (cardiovascular system, kidney, liver). Causes damage to organs (blood, bone, central nervous system, kidneys, Lungs) through prolonged or repeated exposure.

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

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Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Prevent dust accumulation to minimize explosion hazard. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Do not breathe dust/fume. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling. Do not eat, drink or smoke when using

this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Observe good industrial hygiene

practices.

Response

If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed: Call a poison center/doctor. If exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

1% of the mixture consists of component(s) of unknown acute dermal toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Copper	7440-50-8	84 - 94
Tin	7440-31-5	4.5 - 17
Nickel	7440-02-0	0 - 6
Zinc	7440-66-6	1 - 5
Lead	7439-92-1	0 - 1
Phosphorus	7723-14-0	0 - 1

Composition comments

All concentrations are in percent by weight unless otherwise indicated.

4. First-aid measures

Inhalation

In case of inhalation of dust or fumes: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. 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. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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. Narcosis. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Edema. Jaundice. Prolonged exposure may cause chronic effects. Contact with hot material can cause thermal burns which may result in permanent damage.

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Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. 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. 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. Upon combustion, this product may yield toxic vapors/fumes of lead and lead compounds.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods

General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

May form combustible dust concentrations in 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. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of fumes from heated product. Ensure adequate ventilation. Local authorities should be advised if 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). 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. Absorb in vermiculite, dry sand or earth and place into containers. 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. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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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. Explosion-proof general and local exhaust ventilation.

Do not taste or swallow. Avoid breathing 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. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. 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

Components	Тур	е	Va	alue	
Lead (CAS 7439-92-1)	TW	A	0.0	05 mg/m3	
US. OSHA Table Z-1 Lim	its for Air Contaminan	ts (29 CFR 1910.10			
Components	Тур	е	Va	alue	Form
Copper (CAS 7440-50-8)	PEl	-	1	mg/m3	Dust and mist.
			0.	1 mg/m3	Fume.
Nickel (CAS 7440-02-0)	PEl	-	1	mg/m3	
Phosphorus (CAS 7723-14-0)	PEL	-	0.	1 mg/m3	
Tin (CAS 7440-31-5)	PEl	-	2	mg/m3	
US. ACGIH Threshold Li	mit Values				
Components	Тур	е	Va	alue	Form
Copper (CAS 7440-50-8)	TW	A	1	mg/m3	Dust and mist.
			0.3	2 mg/m3	Fume.
Lead (CAS 7439-92-1)	TW	A	0.	05 mg/m3	
Nickel (CAS 7440-02-0)	TW	A	1.	5 mg/m3	Inhalable fraction.
Phosphorus (CAS 7723-14-0)	TW	A	0.	1 mg/m3	
Tin (CAS 7440-31-5)	TW	A	2	mg/m3	
US. NIOSH: Pocket Guid	e to Chemical Hazards	.			
Components	Тур	е	Va	alue	Form
Copper (CAS 7440-50-8)	TW	A	1 :	mg/m3	Dust and mist.
Lead (CAS 7439-92-1)	TW	A	0.	05 mg/m3	
Nickel (CAS 7440-02-0)	TW	A	0.	015 mg/m3	
Phosphorus (CAS 7723-14-0)	TW	A	0.	1 mg/m3	
Tin (CAS 7440-31-5)	TW	A	2	mg/m3	
ogical limit values					
ACGIH Biological Expos	ure Indices				
Components	Value	Determinant	Specimen	Sampling	Time
Lead (CAS 7439-92-1)	200 μg/l	Lead	Blood	*	

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* - For sampling details, please see the source document.

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

Eye/face protection

Unvented, tight fitting goggles should be worn in dusty areas. Use of safety glasses or goggles is required for welding, burning, sawing, brazing, grinding or machining operations. 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

Hand protection

Wear appropriate chemical resistant gloves. Wear suitable protective gloves to prevent cuts and abrasions. When material is heated, wear gloves to protect against thermal burns. Suitable gloves can be recommended by the glove supplier.

Skin protection

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators. Wear NIOSH approved respirator appropriate for airborne exposure at the point of use. Appropriate respirator selection should be made by a qualified professional.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state Solid.

Form Shapes, Solids, Tubes & Turnings.

Color Yellow to red.

Odor None.

Not available. Odor threshold Not available. pН Melting point/freezing point 1832 °F (1000 °C) Initial boiling point and boiling Not available.

range

Not available. Flash point Not available. **Evaporation rate**

Flammability (solid, gas) Fine particles may form explosive mixtures with air.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

(%)

Not available. Vapor pressure Not available. Vapor density

Relative density 8.78

Solubility(ies)

Insoluble in water. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. Viscosity

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0.32 lb/in3 **Bulk density Explosive properties** Not explosive. Oxidizing properties Not oxidizing.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability

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

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Harmful if inhaled. 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 Causes skin irritation. May cause an allergic skin reaction.

Causes serious eye irritation. Eye contact

Ingestion Harmful 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. Narcosis. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin

reaction. Dermatitis. Rash. Edema. Jaundice. Contact with hot material can cause thermal burns

which may result in permanent damage.

Information on toxicological effects

Harmful if swallowed. Harmful if inhaled. Acute toxicity

Components	Species	Test Results
Nickel (CAS 7440-02-0)		
<u>Acute</u>		
Inhalation		
NOAEC	Rat	10200 mg/l, 1 hours
Oral		
LD50	Rat	> 9000 mg/kg
Phosphorus (CAS 7723-14-0)		
<u>Acute</u>		
Oral		
LD50	Rat	3 mg/kg
Zinc (CAS 7440-66-6)		
<u>Acute</u>		
Oral		
LD50	Mouse	> 5 g/kg
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Skin corrosion/irritation

Causes skin irritation. Hot or molten material may produce thermal burns.

Serious eye damage/eye

irritation

Contact with dust or fume: Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

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Version #: 02 **Carcinogenicity** Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Lead (CAS 7439-92-1)

Nickel (CAS 7440-02-0)

2B Possibly carcinogenic to humans.

2B Possibly carcinogenic to humans.

NTP Report on Carcinogens

Lead (CAS 7439-92-1)

Reasonably Anticipated to be a Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Reproductive toxicity May cause harm to breastfed babies. May damage fertility or the unborn child.

Specific target organ toxicity - single exposure

Causes damage to organs (cardiovascular system, kidney, liver).

Single exposure

Specific target organ toxicity - repeated exposure

Causes damage to organs (blood, bone, central nervous system, kidneys, Lungs) through

prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effectsCauses damage to organs. 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.

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 Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Alloys in massive forms

present a limited hazard for the environment.

Components		Species	Test Results
Copper (CAS 7440-50-8)			
Aquatic			
Chronic			
Other	NOEC	Juga plicifera	6 μg/l
Lead (CAS 7439-92-1)			
Aquatic			
Acute			
Crustacea	EC50	Ceriodaphnia dubia	0.248 mg/l, 48 hours pH8
Fish	LC50	Pimephales promelas	0.283 mg/l, 96 hours pH8
Nickel (CAS 7440-02-0)			
Aquatic			
Chronic			
Crustacea	NOEC	Ceriodaphnia dubia	2.8 μg/l
Fish	NOEC	Zebra danio (Danio rerio)	40 μg/l
Phosphorus (CAS 7723-14-0	0)		
Aquatic			
Acute			
Fish	LC50	Bluegill (Lepomis macrochirus)	0.02 mg/l, 96 Hours
Zinc (CAS 7440-66-6)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	0.07 mg/l
Fish	LC50	Oncorhynchus mykiss	0.14 mg/l
sistence and degradability	Not relevan	t for inorganic substances.	

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Bioaccumulative potential The product contains potentially bioaccumulating substances.

Mobility in soil Alloys in massive forms are not mobile in the environment.

Other 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 Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. 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 (see:

Disposal instructions).

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

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

6.1

14. Transport information

IATA

UN3288 **UN number**

UN proper shipping name Transport hazard class(es) Toxic solid, inorganic, n.o.s. (Lead; Phosphorus)

Class Subsidiary risk

Ш Packing group **Environmental hazards** Yes 6L **ERG Code**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number **UN3288**

UN proper shipping name

TOXIC SOLID, INORGANIC, N.O.S. (Lead; Phosphorus)

Transport hazard class(es)

Class 6.1 Subsidiary risk Packing group Ш **Environmental hazards**

Yes Marine pollutant **EmS** F-A, S-A

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

General information IMDG Regulated Marine Pollutant.

15. Regulatory information

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

Standard, 29 CFR 1910.1200.

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

Not applicable.

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Copper (CAS 7440-50-8) Listed. Lead (CAS 7439-92-1) Listed. Nickel (CAS 7440-02-0) Listed. Phosphorus (CAS 7723-14-0) Listed. Zinc (CAS 7440-66-6) Listed.

SARA 304 Emergency release notification

PHOSPHORUS (CAS 7723-14-0) 1 LBS

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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Lead (CAS 7439-92-1)

Reproductive toxicity Central nervous system

Kidney Blood Acute toxicity

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Ch	nemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)	

100 7723-14-0 Phosphorus 1

SARA 311/312 Hazardous

Yes

chemical

Classified hazard Combustible dust

Acute toxicity (any route of exposure) categories

Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitization

Carcinogenicity Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Copper	7440-50-8	84 - 94	
Lead	7439-92-1	0 - 1	
Nickel	7440-02-0	0 - 6	
Phosphorus	7723-14-0	0 - 1	
Zinc	7440-66-6	1 - 5	

Other federal regulations

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

Lead (CAS 7439-92-1) Nickel (CAS 7440-02-0)

Phosphorus (CAS 7723-14-0)

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

Not regulated.

Safe Drinking Water Act (SDWA)

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

80 %WT

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Phosphorus (CAS 7723-14-0)

DEA Exempt Chemical Mixtures Code Number

Phosphorus (CAS 7723-14-0) 6795

US state regulations

US. Massachusetts RTK - Substance List

Copper (CAS 7440-50-8) Lead (CAS 7439-92-1) Nickel (CAS 7440-02-0) Phosphorus (CAS 7723-14-0)

Tin (CAS 7440-31-5) Zinc (CAS 7440-66-6)

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

Copper (CAS 7440-50-8) Lead (CAS 7439-92-1) Nickel (CAS 7440-02-0) Phosphorus (CAS 7723-14-0)

Tin (CAS 7440-31-5) Zinc (CAS 7440-66-6)

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

Copper (CAS 7440-50-8)

Tin Bronze Alloys SDS US Lead (CAS 7439-92-1) Nickel (CAS 7440-02-0) Phosphorus (CAS 7723-14-0) Tin (CAS 7440-31-5)

Zinc (CAS 7440-66-6)

US. Rhode Island RTK

Copper (CAS 7440-50-8) Lead (CAS 7439-92-1) Nickel (CAS 7440-02-0) Phosphorus (CAS 7723-14-0) Tin (CAS 7440-31-5)

Zinc (CAS 7440-66-6)

California Proposition 65



WARNING: This product can expose you to chemicals including 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 date/Carcinogenic substance

Lead (CAS 7439-92-1) Listed: October 1, 1992 Nickel (CAS 7440-02-0) Listed: October 1, 1989

California Proposition 65 - CRT: Listed date/Developmental toxin

Lead (CAS 7439-92-1) Listed: February 27, 1987

California Proposition 65 - CRT: Listed date/Female reproductive toxin

Lead (CAS 7439-92-1) Listed: February 27, 1987

California Proposition 65 - CRT: Listed date/Male reproductive toxin

Inventory name

Lead (CAS 7439-92-1) Listed: February 27, 1987

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Copper (CAS 7440-50-8) Lead (CAS 7439-92-1) Nickel (CAS 7440-02-0) Phosphorus (CAS 7723-14-0)

Tin (CAS 7440-31-5) Zinc (CAS 7440-66-6)

International Inventories

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	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	Yes

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) No United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

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

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On inventory (yes/no)*

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

Further information

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

HMIS® ratings

Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handled Health: 4*

Flammability: 2 Physical hazard: 0

NFPA ratings



Disclaimer

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Tin Bronze Alloys SDS US