

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Tin Bronze Alloys

Revision date 06-30-2011

Version # 04
CAS # Mixture

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

MSDS Number 12

Product use Manufacturing

Manufacturer/Supplier Concast Metal Products Company

131 Myoma Road (PO Box 816) Mars, PA 16046

dpl@concast.com or adk@concast.com

Telephone 1-800-626-7071

Contact Person: Dominic LeMaire or Andy Krowsoski

Emergency 1-800-424-9300 Chemtrec (24-hrs)

2. Hazards Identification

Physical state Solid.

Appearance Shapes, Solids, Tubes & Turnings.

Emergency overview DANGER

May be fatal if inhaled or swallowed. Causes skin, eye and respiratory tract irritation. May cause allergic skin reaction. Possible cancer hazard - may cause cancer based on animal data. Possible reproductive hazard that may cause adverse reproductive effects based on animal data. May

cause damage to the liver and kidneys.

Warning: May Form Combustible (Explosive) Dust - Air Mixtures

OSHA regulatory status

Potential health effects

Routes of exposure

Inhalation. Skin contact. Eye contact. Ingestion.

Eyes Molten material will produce thermal burns. Dust in the eyes will cause irritation.

Skin May cause allergic skin reaction. Hot or molten material may produce thermal burns. Workers

allergic to nickel may develop eczema or rashes. Mechanical processing may generate dust.

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

Causes skin irritation.

Inhalation May be fatal if inhaled. Dust irritating to respiratory tract.

Ingestion Not relevant, due to the form of the product in its manufactured and shipped state. However: May

be fatal if swallowed. Mechanical processing may generate dust. Causes digestive tract irritation.

Target organs Lungs. Liver. Kidneys. Bone.

Chronic effects 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.

Lead is accumulated in the body and may cause damage to the brain and nervous system after

prolonged exposure.

May adversely affect the developing fetus based on animal data. Contains nickel, which can cause lung or nasal cancer. Long-term breathing of this material may cause chronic lung disease. Prolonged and repeated overexposure to dust and fumes can lead to benign pneumoconiosis

(stannosis). The effects might be delayed. Can cause bone damage.

Signs and symptoms Irritation of nose and throat. Irritation of eyes and mucous membranes. Coughing. Shortness of

breath. Wheezing, Sensitization. The principal symptoms of lead poisoning are gastro-intestinal

or central nervous system disturbances and anemia.

Potential environmental effects Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

| Components | CAS# | Percent |
|------------------|-----------|---------|
| Copper | 7440-50-8 | 84-94 |
| Tin | 7440-31-5 | 4.5-17 |
| Nickel | 7440-02-0 | 0-6 |
| Lead | 7439-92-1 | 0-1 |
| White phosphorus | 7723-14-0 | 0-1 |

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The alloy contains additional alloying elements at concentrations below disclosure requirements. At temperatures above the melting point the alloys may liberate fumes containing oxides of alloying elements.

4. First Aid Measures

First aid procedures

Eye contact Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove any

contact lenses and open eyes wide apart.

Skin contactContact with dust: Remove contaminated clothes and rinse skin thoroughly with water for at least

15 minutes. Get medical attention if irritation persists after washing. In case of allergic reaction or other skin disorders: Seek medical attention and bring 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.

Inhalation In case of exposure to fumes or particulates: Get medical attention if discomfort persists.

Ingestion Rinse mouth thoroughly if dust is ingested. Only induce vomiting at the instruction of medical

personnel. Get medical attention if any discomfort continues.

Notes to physician Treat symptomatically. Symptoms may be delayed.

General advice Get medical attention if any discomfort develops. Seek medical attention for all burns, regardless

how minor they may seem. Show this safety data sheet to the doctor in attendance.

5. Fire Fighting Measures

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

explosive mixture with air. In a fire, nickel may form nickel carbonyl, a highly toxic substance and

known carcinogen.

Extinguishing media

Suitable extinguishing

media

Special powder against metal fires. Dry sand.

Unsuitable extinguishing

media

Do not use water or halogenated extinguishing media. Do not use water on molten metal:

Explosion hazard could result.

Protection of firefighters

Specific hazards arising

from the chemical

During fire, gases hazardous to health may be formed.

Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in

the workplace.

Metal oxides.

Fire fighting

equipment/instructions

Move containers from fire area if you can do it without risk.

Hazardous combustion

products

6. Accidental Release Measures

Personal precautions Ensure adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Wear

protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions Avoid release to the environment. Do not contaminate water.

Methods for containment Not applicable.

Methods for cleaning up

Avoid dust formation. Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle or disposal. Collect dust using a vacuum cleaner equipped with HEPA filter. If not possible, gently moisten dust before it is collected with shovel, broom or the like. The vacuum cleaner should be explosion-proofed. Collect in containers and seal securely. This material and its container must be disposed of as hazardous waste.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling

Follow special national provisions related to work with lead and its compounds. Pregnant women should not work with the product, if there is the least risk of lead exposure. Welding, burning, sawing, brazing, grinding or machining operations may generate fumes and dusts of metal oxides. Provide adequate ventilation. Avoid contact with sharp edges and hot surfaces. Avoid generation and spreading of dust and fumes. Avoid inhalation of dust and contact with skin and eyes. Avoid contact with hot or molten material. Dust clouds may be explosive under certain conditions. Take precautionary measures against static discharges when there is a risk of dust explosion. Use explosion-proof electrical equipment if airborne dust levels are high. To prevent and minimize fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system. Wear appropriate personal protective equipment. Do not use water on molten metal. Do not eat, drink or smoke when using the product. Keep the workplace clean. Observe good industrial hygiene practices.

Storage

Keep dry. Store away from incompatible materials.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

| Components | Туре | Value | Form |
|--------------------|------|------------|---------------------|
| Copper (7440-50-8) | TWA | 0.2 mg/m3 | Fume. |
| | | 1 mg/m3 | Dust and mist. |
| Lead (7439-92-1) | TWA | 0.05 mg/m3 | |
| Nickel (7440-02-0) | TWA | 1.5 mg/m3 | Inhalable fraction. |
| Tin (7440-31-5) | TWA | 2 mg/m3 | |
| White phosphorus | TWA | 0.1 mg/m3 | |
| (7723-14-0) | | · · | |

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

| Components | Туре | Value | Form |
|--------------------|------|------------|----------------|
| Copper (7440-50-8) | PEL | 0.1 mg/m3 | Fume. |
| , | | 1 mg/m3 | Dust and mist. |
| Lead (7439-92-1) | TWA | 0.05 mg/m3 | |
| Nickel (7440-02-0) | PEL | 1 mg/m3 | |
| Tin (7440-31-5) | PEL | 2 mg/m3 | |
| White phosphorus | PEL | 0.1 mg/m3 | |
| (7723-14-0) | | G | |

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

| Components | Туре | Value | Form |
|--------------------|------|------------|----------------|
| Copper (7440-50-8) | TWA | 0.2 mg/m3 | Fume. |
| | | 1 mg/m3 | Dust and mist. |
| Lead (7439-92-1) | TWA | 0.05 mg/m3 | |
| Nickel (7440-02-0) | TWA | 1.5 mg/m3 | |
| Tin (7440-31-5) | TWA | 2 mg/m3 | |
| White phosphorus | TWA | 0.1 mg/m3 | |
| (7723-14-0) | | | |

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

| Components | Туре | Value | Form |
|--------------------|------|------------|----------------|
| Copper (7440-50-8) | TWA | 0.2 mg/m3 | Fume. |
| | | 1 mg/m3 | Dust and mist. |
| Lead (7439-92-1) | TWA | 0.05 mg/m3 | |
| Nickel (7440-02-0) | TWA | 0.05 mg/m3 | |
| Tin (7440-31-5) | TWA | 2 mg/m3 | |
| | | | |

| Components | Туре | Value F | Form |
|------------------|------|-----------|------|
| White phosphorus | TWA | 0.1 mg/m3 | |
| (7723-14-0) | | - | |

Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents)

| Components | Туре | Value | Form |
|--------------------|------|------------|----------------|
| Copper (7440-50-8) | TWA | 0.2 mg/m3 | Fume. |
| | | 1 mg/m3 | Dust and mist. |
| Lead (7439-92-1) | TWA | 0.05 mg/m3 | |
| Nickel (7440-02-0) | TWA | 1 mg/m3 | Inhalable |
| Tin (7440-31-5) | TWA | 2 mg/m3 | |
| White phosphorus | TWA | 0.1 mg/m3 | |
| (7723-14-0) | | - | |

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

| Components | Туре | Value | Form |
|------------------------------|------|------------|----------------|
| Copper (7440-50-8) | TWA | 0.2 mg/m3 | Fume. |
| | | 1 mg/m3 | Dust and mist. |
| Lead (7439-92-1) | TWA | 0.05 mg/m3 | |
| Nickel (7440-02-0) | TWA | 1 mg/m3 | |
| Tin (7440-31-5) | TWA | 2 mg/m3 | |
| White phosphorus (7723-14-0) | TWA | 0.1 mg/m3 | |

Mexico. Occupational Exposure Limit Values

| Components | Туре | Value | Form |
|------------------------------|------|------------|----------------|
| Copper (7440-50-8) | STEL | 2 mg/m3 | Fume. |
| | | 2 mg/m3 | Dust and mist. |
| | TWA | 0.2 mg/m3 | Fume. |
| | | 1 mg/m3 | Dust and mist. |
| Lead (7439-92-1) | TWA | 0.15 mg/m3 | Dust and fume. |
| Nickel (7440-02-0) | TWA | 1 mg/m3 | |
| Tin (7440-31-5) | STEL | 4 mg/m3 | |
| | TWA | 2 mg/m3 | |
| White phosphorus (7723-14-0) | STEL | 0.3 mg/m3 | |
| • | TWA | 0.1 mg/m3 | |

Engineering controls

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust. Ventilate as needed to control airborne dust. Use explosion-proof ventilation equipment if airborne dust levels are high. Special ventilation should be used to convey finely divided metallic dust generated by grinding, sawing etc., in order to eliminate explosion hazards. Follow the schedule for work place measurements when working with lead and its compounds.

Personal protective equipment

Eye / face protection

Wear dust-resistant safety goggles where there is danger of eye contact. In addition to safety glasses or goggles, a welding helmet with appropriate shaded shield is required during welding, burning, or brazing. A face shield is recommended, in addition to safety glasses or goggles, during sawing, grinding, or machining.

Skin protection

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. Wear suitable protective clothing.

Respiratory protection

When engineering controls are not sufficient to lower exposure levels below the applicable exposure limit, use a NIOSH approved respirator for dusts. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever work place conditions warrant a respirator's use. Seek advice from local supervisor.

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. Private clothes and working clothes should be kept separately. Contaminated uniforms should be laundered separately from other clothing to prevent potential cross-contamination. If possible, an industrial laundry service should be used to eliminate the possibility of contaminating the home environment. Handle in accordance with good industrial hygiene and safety practices. Observe any medical surveillance requirements.

9. Physical & Chemical Properties

Shapes, Solids, Tubes & Turnings. **Appearance**

Yellow to red. Color

None. Odor

Not available. **Odor threshold**

Physical state Solid.

Solid. Shapes, Solids, Tubes & Turnings. **Form**

pН Unknown.

Melting point 1832 °F (1000 °C) Not available. Freezing point **Boiling point** Not available. Not available. Flash point **Evaporation rate** Not available. Flammability limits in air, upper, Not available.

% by volume

Flammability limits in air, lower, Not available.

% by volume

Vapor pressure Not available. Not available. Vapor density Not available. Specific gravity Insoluble. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. 0.317 lb/in³ **Bulk density**

10. Chemical Stability & Reactivity Information

Chemical stability Massive metal is stable and non reactive under normal conditions of use, storage and transport.

Conditions to avoid Contact with incompatible materials. Contact with acids will release flammable hydrogen gas.

Avoid dust formation. Dust clouds may be explosive under certain conditions.

Incompatible materials Acids. Ammonium nitrate. Fluoride. Halogens. Nitrates. Phosphorus. Strong oxidizing agents.

Sulphur.

Hazardous decomposition

products

Welding, burning, sawing, brazing, grinding or machining operations may generate dusts and

fumes of metal oxides. Lead oxide fumes may be formed at elevated temperatures.

Possibility of hazardous

reactions

Hazardous polymerization does not occur. Hot molten material will react violently with water

resulting in spattering and fuming.

11. Toxicological Information

Dust: Causes skin, eye and respiratory tract irritation. May be fatal if inhaled or swallowed. May **Acute effects**

cause damage to the liver and kidneys. High concentrations of freshly formed fumes/dusts of

metal oxides can produce symptoms of metal fume fever.

Sensitization May cause allergic skin reaction.

Chronic effects Prolonged and repeated overexposure to dust and fumes can lead to benign pneumoconiosis

(stannosis). Chronic inhalation of metallic oxide dust/fume may cause metal fume fever. 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. May adversely affect

the developing fetus based on animal data. Can cause bone damage.

Carcinogenicity Possible cancer hazard - may cause cancer based on animal data.

ACGIH Carcinogens

Lead (CAS 7439-92-1) A3 Confirmed animal carcinogen with unknown relevance to

Nickel (CAS 7440-02-0) A5 Not suspected as a human carcinogen.

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.

US NTP Report on Carcinogens: Anticipated carcinogen

Lead (CAS 7439-92-1)

Nickel (CAS 7440-02-0)

Anticipated carcinogen.

Anticipated carcinogen.

US NTP Report on Carcinogens: Known carcinogen

Nickel (CAS 7440-02-0) Known carcinogen.

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

prolonged exposure to high concentrations of metal dust or fumes. Pre-existing skin conditions

including dermatitis might be aggravated by exposure to this product.

MutagenicityNo data available.Neurological effectsNo data available.

Reproductive effects Possible reproductive hazard that may cause adverse reproductive effects based on animal data.

Teratogenicity Nickel: Has shown teratogenic effects in laboratory animals.

Further information Lead is accumulated in the body and may cause damage to the brain and nervous system after

prolonged exposure. Welding or plasma arc cutting of metal and alloys can generate ozone, nitric oxides and ultraviolet radiation. Ozone overexposure may result in mucous membrane irritation or

pulmonary discomfort. UV radiation can cause skin erythema and welders flash.

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12. Ecological Information

Ecotoxicological data

Components

| Components | rest results |
|------------------------------|--|
| Lead (7439-92-1) | LC50 Rainbow trout, donaldson trout (Oncorhynhus mykiss): 1.17 mg/l 96 Hours |
| White phosphorus (7723-14-0) | EC50 Water flea (Daphnia magna): 0.025 - 0.037 mg/l 48 hours |
| | LC50 Bluegill (Lepomis macrochirus): 0.001 - 0.004 mg/l 96 hours |

Ecotoxicity Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and degradability
Bioaccumulation /

The product contains potentially bioaccumulating substances.

Accumulation
Partition coefficient

n coefficient Not available.

(n-octanol/water)
Mobility in environmental

media

Alloys in massive forms are not mobile in the environment.

13. Disposal Considerations

Waste codes Not regulated.

Disposal instructionsThis material and its container must be disposed of as hazardous waste. Dispose in accordance

with all applicable regulations.

The product is not biodegradable.

Waste from residues / unused

products

Recover and recycle, if practical. 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 Not applicable.

14. Transport Information

DOT

Not regulated as dangerous goods.

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.

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Spill: Reportable quantity

White phosphorus (CAS 7723-14-0)

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold Planning Quantity

White phosphorus (CAS 7723-14-0) 100 LBS

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

Copper (CAS 7440-50-8) 1.0 %

Lead (CAS 7439-92-1) 0.1 % Substance is not eligible for the de minimis exemption

except for the purposes of supplier notification requirements.

0.1 % Nickel (CAS 7440-02-0) White phosphorus (CAS 7723-14-0) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Reportable threshold

Lead (CAS 7439-92-1) 100 LBS

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

Copper (CAS 7440-50-8) Listed. Lead (CAS 7439-92-1) Listed. Nickel (CAS 7440-02-0) Listed. White phosphorus (CAS 7723-14-0) Listed.

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

Copper: 5000 Nickel: 100 Lead: 10

White phosphorus: 1

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

Section 302 extremely hazardous substance (40 CRF 355, Appendix A)

Section 311/312 (40 CFR

Yes

No

370)

Drug Enforcement

Canadian regulations

Administration (DEA) (21 CFR

1308.11-15)

Not controlled

This product has been classified in accordance with hazard criteria of the Controlled Products

Yes

Regulations and the MSDS contains all the information required by the Controlled Products

Regulations.

WHMIS status Controlled

WHMIS classification D1B - Immediate/Serious-TOXIC

D2A - Other Toxic Effects-VERY TOXIC

D2B - Other Toxic Effects-TOXIC

WHMIS labeling



Inventory status

Inventory name On inventory (yes/no)* Country(s) or region

Australia Australian Inventory of Chemical Substances (AICS)

Canada Domestic Substances List (DSL) Yes

| Country(s) or region | Inventory name | | On inventory (yes/no)* |
|--|--|--|------------------------|
| 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 Chem | European List of Notified Chemical Substances (ELINCS) | |
| 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 Chemica (PICCS) | als and Chemical Substances | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (| TSCA) Inventory | Yes |
| *A "Yes" indicates that all compon | ents of this product comply with the i | inventory requirements administered by the gov | rerning country(s) |
| State regulations | WARNING: This product contain | ins a chemical known to the State of Califo | rnia to cause cancer. |
| US - California Hazardous Si | ubstances (Director's): Listed s | substance | |
| Copper (CAS 7440-50-8) | | Listed. | |
| Lead (CAS 7439-92-1) | | Listed. | |
| Nickel (CAS 7440-02-0) | | Listed. | |
| Tin (CAS 7440-31-5) | | Listed. | |
| White phosphorus (CAS 7 | | Listed. | |
| - | 5 - Carcinogens & Reproductiv | ve Toxicity (CRT): Listed substance | |
| Lead (CAS 7439-92-1) Nickel (CAS 7440-02-0) | | Listed. | |
| · · · · · · · · · · · · · · · · · · · | 5 - CRT: Listed date/Carcinoge | | |
| Lead (CAS 7439-92-1) | o on i. Listed date, our onlog | Listed: October 1, 1992 Carcinogenic. | |
| Nickel (CAS 7439-92-1) | | Listed: October 1, 1989 Carcinogenic. | |
| , | 5 - CRT: Listed date/Developm | | |
| Lead (CAS 7439-92-1) | • | Listed: February 27, 1987 Developmental | toxin. |
| | 5 - CRT: Listed date/Female re | | |
| Lead (CAS 7439-92-1) | | Listed: February 27, 1987 Female reprodu | uctive toxin. |
| | 5 - CRT: Listed date/Male repre | | |
| Lead (CAS 7439-92-1) | | Listed: February 27, 1987 Male reproduct | ive toxin. |
| US - Massachusetts RTK - S | ubstance: Listed substance | | |
| Copper (CAS 7440-50-8) | | Listed. | |
| Lead (CAS 7439-92-1) | | Listed. | |
| Nickel (CAS 7440-02-0) Tin (CAS 7440-31-5) | | Listed. | |
| White phosphorus (CAS 7 | 723-14-0) | Listed. | |
| | RTK (EHS Survey): Reportabl | | |
| Copper (CAS 7440-50-8) | , , , , | 500 LBS | |
| Lead (CAS 7439-92-1) | | 500 LBS | |
| Nickel (CAS 7440-02-0) | | 500 LBS | |
| White phosphorus (CAS 7 | | 100 LBS | |
| US - New Jersey RTK - Subs | tances: Listed substance | | |
| Copper (CAS 7440-50-8) | | Listed. | |
| Lead (CAS 7439-92-1) | | Listed. | |
| Nickel (CAS 7440-02-0) | | Listed. | |
| Tin (CAS 7440-31-5) White phosphorus (CAS 7 | 722 14 0) | Listed. | |
| | | ounds of this substance are considered | l environmental |
| hazards | araous cassianoss. 7m comp | | · onvironmental |
| Copper (CAS 7440-50-8) | | LISTED | |
| Lead (CAS 7439-92-1) | | LISTED | |
| Nickel (CAS 7440-02-0) | | LISTED | |
| US - Pennsylvania RTK - Haz | ardous Substances: Listed su | bstance | |
| Copper (CAS 7440-50-8) | | Listed. | |
| Lead (CAS 7439-92-1) | | Listed. | |
| Nickel (CAS 7440-02-0) | | Listed. | |

Tin Bronze Alloys CPH MSDS NA Tin (CAS 7440-31-5)

White phosphorus (CAS 7723-14-0)

Listed.

Listed.

US - Pennsylvania RTK - Hazardous Substances: Special hazard

Nickel (CAS 7440-02-0) Special hazard.

16. Other Information

Recommended use Manufacturing
Recommended restrictions Not assigned.

Further information HMIS® is a registered trade and service mark of the NPCA. X - Specialized Handling

Other information None known.

HMIS® ratings Health: 2*
Flammability: 0
Physical hazard: 0

Personal protection: X

NFPA ratings Health: 2

Flammability: 0 Instability: 0

Disclaimer The information in this MSDS was obtained from industry sources that we believe to be reliable.

However, the information is provided without any representation or warranty, expressed or implied regarding the accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of

the product.

Issue date 06-30-2011