

Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/01/2015

Reviewed on 07/01/2015

1 Identification
· Product identifier
 Trade name: <u>Brass</u> Other Product Identifiers: Half Hard, Soft, Shim, HR Naval, Muntz Free Cutting Leaded
 Recommended use and restriction on use Recommended use: Raw materials. Restrictions on use: Contact manufacturer.
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: Castle Metals 1420 Kensington Road Suite 220 Oak Brook IL 60523 (847) 349-3000
· Emergency telephone number: (847)-349-3000
2 Hazard(s) identification
 Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS). Additional information: There are no other hazards not otherwise classified that have been identified. 0 percent of the mixture consists of ingredient(s) of unknown toxicity. Not hazardous as delivered. Long term inhalation of product dusts formed during use is harmful. Label elements GHS label elements The product is not classified as hazardous according to OSHA GHS regulations within the United States. Hazard pictograms Not Regulated
 Signal word Not Regulated Hazard-determining components of labeling: None. Hazard statements Not Regulated Precautionary statements Not Regulated Hazard description: WHMIS-symbols: Not hazardous under WHMIS. Classification system: NFPA ratings (scale 0 - 4)
Health = 0 Fire = 0 Reactivity = 0
· HMIS-ratings (scale 0 - 4)
HEALTH I Health = 0 FIRE FIRE FIRE = 0 REACTIVITY REACTIVITY REACTIVITY REACTIVITY REACTIVITY
(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/01/2015

Reviewed on 07/01/2015

Trade name: Brass

(Contd. of page 1)

60-70%

30-40%

<4%

<1%

· Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous	components:
-------------	-------------

7440-50-8	copper

7440-66-6 zinc metal

7439-92-1 lead

7440-31-5 tin

& Carc. 2, H351; Repr. 1A, H360; STOT RE 1, H372

· Additional information:

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

4 First-aid measures

· Description of first aid measures

· General information: No special measures required.

• After inhalation: Supply fresh air; consult doctor in case of complaints.

• After skin contact:

Brush off loose particles from skin.

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· Information for doctor:

· Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Danger No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:

Special powder for metal fires. Do not use water. Dry sand

(Contd. on page 3)



Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/01/2015

Reviewed on 07/01/2015

Trade name: Brass

(Contd. of page 2)

Graphite powder. Copper Powder.

Dry sodium chloride

• For safety reasons unsuitable extinguishing agents: Water

· Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

• Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information No further relevant information available.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Do not breathe dust.

Avoid formation of dust.

Use personal protective equipment as required.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

• Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose of the collected material according to regulations.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Handling:

· Precautions for safe handling

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed. Use proper precautions around molten material.

Information about protection against explosions and fires:

Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with acids.

Do not store together with alkalis (caustic solutions).

Store away from oxidizing agents.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/01/2015

Trade name: Brass

· Further information about storage conditions: None.

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control	parameters
-----------	------------

· Components w	vith limit values that require monitoring at the workplace:	
7440-50-8 copp	Der	
PEL (USA)	Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fume	
REL (USA)	Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fume	
TLV (USA)	Long-term value: 1* 0.2** mg/m³ *dusts and mists; **fume; as Cu	
EL (Canada)	Long-term value: 1* 0.2** mg/m³ *dusts and mists; **fume, as Cu	
EV (Canada)	Long-term value: 0.2* 1** mg/m³ as copper, *fume;**dust and mists	
LMPE (Mexico)	Long-term value: 0.2* 1** mg/m³ *humo (como Cu);**polvo y niebla (como Cu)	
7439-92-1 lead	•	
PEL (USA)	Long-term value: 0.05* mg/m ³ *see 29 CFR 1910.1025	
REL (USA)	Long-term value: 0.05* mg/m ³ *8-hr TWA,excl. lead arsenate;See PocketGuideApp.C	
TLV (USA)	Long-term value: 0.05* mg/m³ *and inorganic compounds, as Pb; BEI	
EL (Canada)	Long-term value: 0.05 mg/m³ R; IARC 2B	
EV (Canada)	Long-term value: 0.05 mg/m³ as Pb, Skin (organic compounds)	
LMPE (Mexico)	Long-term value: 0.05 mg/m³ A3, IBE	
7440-31-5 tin	•	
PEL (USA)	Long-term value: 2 mg/m ³ metal	
REL (USA)	Long-term value: 2 mg/m ³	
TLV (USA)	Long-term value: 2 mg/m ³ metal	
EL (Canada)	Long-term value: 2 mg/m³ metal	
	(Contd. on page	3 5)



Reviewed on 07/01/2015

(Contd. of page 3)

Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/01/2015

Reviewed on 07/01/2015

EV (Canada)	Long-term value: 2* 0.1** mg/m ³ (Contd. of
(,	*metal, oxide, inorg. compds.;**org. compds.: Skin
LMPE (Mexico)	Long-term value: 2* mg/m ³
	*metal
-	th biological limit values:
7439-92-1 lead	
BEI (USA) 30 I	
	dium: blood e: not critical
	ameter: Lead
10	ug/100 ml
Med	Jium: blood
	e: not critical
	ameter: Lead (women of child bearing potential)
Additional info	rmation: No further relevant information available.
Engineering co Breathing equ Use respiratory For spills, respi Particulate mas Protection of h	protection when grinding or cutting material. ratory protection may be advisable. k should filter at least 99% of airborne particles. nands: r the protection against mechanical hazards according to OSHA and NIOSH rules.
LVE DIDIECHON	-
	glasses
Body protection	glasses on: Protective work clothing supervision of exposure into the environment Avoid release to the environment. thent measures See Section 7 for additional information.

· Appearance:

Form:

Solid material

(Contd. on page 6)



Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/01/2015

Reviewed on 07/01/2015

Color: · Odor: · Odor threshold:	Copper colored Odorless Not determined.	(Contd. of page 5)
[·] pH-value:	Not applicable.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	871 °C (1600 °F) Undetermined.	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not determined.	
· Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not self-igniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
[·] Explosion limits: Lower: Upper:	Not determined. Not determined.	
· Vapor pressure:	Not applicable.	
 Density at 20 °C (68 °F): Relative density Vapour density Evaporation rate 	>8 g/cm³ (>66.76 lbs/gal) Not determined. Not applicable. Not applicable.	
 Solubility in / Miscibility with Water: 	Insoluble.	
· Partition coefficient (n-octanol/water)	: Not determined.	
 Viscosity: Dynamic: Kinematic: Other information 	Not applicable. Not applicable. No further relevant information available.	

10 Stability and reactivity

Reactivity
Chemical stability
Thermal decomposition / conditions to be avoided: Heating may cause release of toxic fumes.
Possibility of hazardous reactions Reacts with strong acids and alkali. Reacts with strong oxidizing agents. Reacts with halogenated compounds. As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.
Conditions to avoid Avoid acids.

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/01/2015

Reviewed on 07/01/2015

Trade name: Brass

(Contd. of page 6)

 Incompatible materials: Oxidizers, strong bases, strong acids
 Hazardous decomposition products: Possible in traces: Toxic metal oxide smoke Leadoxide vapor

on the skin: No irritant effect. on the eye: No irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product is not subject to classification according to internally approved calculation methods preparations: When used and handled according to specifications, the product does not have any harmful effe according to our experience and the information provided to us. Carcinogenic categories NTP (National Toxicology Program) 7439-92-1 lead OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. Probable Routes of Exposure Eye contact. Skin contact. Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met.		formation on toxicological effects cute toxicity:
Oral LD50 >2000 mg/kg (rat) Primary irritant effect: on the skin: No irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product is not subject to classification according to internally approved calculation methods preparations: When used and handled according to specifications, the product does not have any harmful effe according to our experience and the information provided to us. Carcinogenic categories NTP (National Toxicology Program) 7439-92-1 Probable Routes of Exposure Eye contact. Skin contact. Repeated Dose Toxicity: May cause metal fume disease. Repeated Dose Toxicity: May cause metal fume disease. CCMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Gern cell mutagenicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met.	·LC	D/LC50 values that are relevant for classification:
Primary irritant effect: on the skin: No irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product is not subject to classification according to internally approved calculation methods preparations: When used and handled according to specifications, the product does not have any harmful effe according to our experience and the information provided to us. Carcinogenic categories NTP (National Toxicology Program) 7439-92-1 lead OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. Probable Routes of Exposure Eye contact. Skin contact. Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-sepeated exposure Based on available data, the classification criteria are not met.	74	l39-92-1 lead
 on the skin: No irritant effect. on the eye: No irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product is not subject to classification according to internally approved calculation methods preparations: When used and handled according to specifications, the product does not have any harmful effe according to our experience and the information provided to us. Carcinogenic categories NTP (National Toxicology Program) 7439-92-1 lead OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. Probable Routes of Exposure Eye contact. Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. 	Or	ral LD50 >2000 mg/kg (rat)
 on the eye: No irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product is not subject to classification according to internally approved calculation methods preparations: When used and handled according to specifications, the product does not have any harmful effet according to our experience and the information provided to us. Carcinogenic categories NTP (National Toxicology Program) 7439-92-1 lead OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. Probable Routes of Exposure Eye contact. Skin contact. Repeated Dose Toxicity: May cause metal fume disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. 		
Sensitization: No sensitizing effects known. Additional toxicological information: The product is not subject to classification according to internally approved calculation methods preparations: When used and handled according to specifications, the product does not have any harmful effect according to our experience and the information provided to us. Carcinogenic categories NTP (National Toxicology Program) 7439-92-1 Iead OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. Probable Routes of Exposure Eye contact. Skin contact. Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. Stori-single exposure Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met.	-	
Additional toxicological information: The product is not subject to classification according to internally approved calculation methods preparations: When used and handled according to specifications, the product does not have any harmful effe according to our experience and the information provided to us. Carcinogenic categories NTP (National Toxicology Program) 7439-92-1 lead OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. Probable Routes of Exposure Eye contact. Skin contact. Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. StOT-single exposure Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met.		
The product is not subject to classification according to internally approved calculation methods preparations: When used and handled according to specifications, the product does not have any harmful effe according to our experience and the information provided to us. • Carcinogenic categories • NTP (National Toxicology Program) 7439-92-1 lead • OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. • Probable Routes of Exposure Eye contact. Skin contact. • Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. • CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): • Germ cell mutagenicity Based on available data, the classification criteria are not met. • Reproductive toxicity Based on available data, the classification criteria are not met. • STOT-single exposure Based on available data, the classification criteria are not met.		
preparations: When used and handled according to specifications, the product does not have any harmful efference according to our experience and the information provided to us. Carcinogenic categories NTP (National Toxicology Program) 7439-92-1 lead OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. Probable Routes of Exposure Eye contact. Skin contact. Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met.		
When used and handled according to specifications, the product does not have any harmful effe according to our experience and the information provided to us. Carcinogenic categories NTP (National Toxicology Program) 7439-92-1 lead OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. Probable Routes of Exposure Eye contact. Skin contact. Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met.		
according to our experience and the information provided to us. • Carcinogenic categories • NTP (National Toxicology Program) 7439-92-1 lead • OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. • Probable Routes of Exposure Eye contact. • Probable Routes of Exposure Eye contact. • Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. • CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): • Germ cell mutagenicity Based on available data, the classification criteria are not met. • Carcinogenicity Based on available data, the classification criteria are not met. • STOT-single exposure Based on available data, the classification criteria are not met.		
Carcinogenic categories NTP (National Toxicology Program) 7439-92-1 lead OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. Probable Routes of Exposure Eye contact. Skin contact. Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met.		
NTP (National Toxicology Program) 7439-92-1 lead OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. Probable Routes of Exposure Eye contact. Skin contact. Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met.		
7439-92-1 lead OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. Probable Routes of Exposure Eye contact. Skin contact. Skin contact. Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met.		
 OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. Probable Routes of Exposure Eye contact. Skin contact. Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. StOT-single exposure Based on available data, the classification criteria are not met. 		
None of the ingredients is listed. Probable Routes of Exposure Eye contact. Skin contact. Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met.	74	39-92-1 lead
 Probable Routes of Exposure Eye contact. Skin contact. Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met.	· 03	SHA-Ca (Occupational Safety & Health Administration)
 Eye contact. Skin contact. Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. 	No	one of the ingredients is listed.
 Skin contact. Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. 	· Pr	obable Routes of Exposure
 Repeated Dose Toxicity: May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met. 		
May cause metal fume disease. Repeated or long-term inhalation of product dusts may cause pulmonary disease. • CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): • Germ cell mutagenicity Based on available data, the classification criteria are not met. • Carcinogenicity Based on available data, the classification criteria are not met. • Reproductive toxicity Based on available data, the classification criteria are not met. • STOT-single exposure Based on available data, the classification criteria are not met. • STOT-repeated exposure Based on available data, the classification criteria are not met.	-	
 Repeated or long-term inhalation of product dusts may cause pulmonary disease. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met. 		
 CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met. 		
 Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met. 		
 Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met. 		
 Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met. 		
• STOT-single exposure Based on available data, the classification criteria are not met. • STOT-repeated exposure Based on available data, the classification criteria are not met.		
• STOT-repeated exposure Based on available data, the classification criteria are not met.		
		spiration hazard Based on available data, the classification criteria are not met.

12 Ecological information

· Toxicity

• Aquatic toxicity: No further relevant information available.

(Contd. on page 8)



Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/01/2015

Reviewed on 07/01/2015

Trade name: Brass

(Contd. of page 7)

- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential May be accumulated in organism
- **Mobility in soil** No further relevant information available.
- Additional ecological information:
- · General notes:

The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary.

• Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Contact manufacturer for recycling information.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

14 Transport information · UN-Number · DOT, ADR, ADN, IMDG, IATA Not Regulated · UN proper shipping name · DOT, ADR, ADN, IMDG, IATA Not Regulated · Transport hazard class(es) · · DOT, ADR, IMDG, IATA Not Regulated · Transport hazard class(es) · · DOT, ADR, IMDG, IATA · · Class Not Regulated · Label - · ADN/R Class: Not Regulated · Packing group · · DOT, ADR, IMDG, IATA Not Regulated · Packing group · · DOT, ADR, IMDG, IATA Not Regulated · Packing group · · DOT, ADR, IMDG, IATA Not Regulated · Packing group · · DOT, ADR, IMDG, IATA Not Regulated · Environmental hazards: Product contains environmentally hazardous substand zinc powder -zinc dust (pyrophoric), lead · Marine pollutant: No · Special precautions for user Not applicable. · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · UN "Model Regulaten"": Not applicabl		
 DOT, ADR, ADN, IMDG, IATA Not Regulated UN proper shipping name DOT, ADR, ADN, IMDG, IATA Not Regulated Transport hazard class(es) DOT, ADR, IMDG, IATA Class Not Regulated Label - ADN/R Class: Not Regulated Packing group DOT, ADR, IMDG, IATA Not Regulated Packing group DOT, ADR, IMDG, IATA Not Regulated Fnvironmental hazards: Product contains environmentally hazardous substance zinc powder -zinc dust (pyrophoric), lead Marine pollutant: No Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. 	4 Transport information	
• UN proper shipping name • • DOT, ADR, ADN, IMDG, IATA Not Regulated • Transport hazard class(es) • • DOT, ADR, IMDG, IATA • • Class Not Regulated • Label - • ADN/R Class: Not Regulated • Packing group • • DOT, ADR, IMDG, IATA Not Regulated • Packing group • • DOT, ADR, IMDG, IATA Not Regulated • Packing group • • DOT, ADR, IMDG, IATA Not Regulated • Packing group • • Morine pollutant: Not Regulated • Marine pollutant: No • Special precautions for user Not applicable. • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	· UN-Number	
 DOT, ADR, ADN, IMDG, IATA Not Regulated Transport hazard class(es) DOT, ADR, IMDG, IATA Class Not Regulated Label - ADN/R Class: Not Regulated Packing group DOT, ADR, IMDG, IATA Not Regulated Packing group DOT, ADR, IMDG, IATA Not Regulated Packing group DOT, ADR, IMDG, IATA Not Regulated Packing group Marine pollutant: Product contains environmentally hazardous substant zinc powder -zinc dust (pyrophoric), lead Marine pollutant: No Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. 	· DOT, ADR, ADN, IMDG, IATA	Not Regulated
 Transport hazard class(es) DOT, ADR, IMDG, IATA Class Not Regulated Label Label ADN/R Class: Not Regulated Packing group DOT, ADR, IMDG, IATA Not Regulated Packing group DOT, ADR, IMDG, IATA Not Regulated Environmental hazards: Product contains environmentally hazardous substance zinc powder -zinc dust (pyrophoric), lead Marine pollutant: No Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. 		
 DOT, ADR, IMDG, IATA Class Not Regulated Label - ADN/R Class: Not Regulated Packing group DOT, ADR, IMDG, IATA Not Regulated Packing group DOT, ADR, IMDG, IATA Not Regulated Environmental hazards: Product contains environmentally hazardous substance zinc powder -zinc dust (pyrophoric), lead Marine pollutant: No Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. 		Not Regulated
 Class Label ADN/R Class: Not Regulated Packing group DOT, ADR, IMDG, IATA Not Regulated Product contains environmentally hazardous substance zinc powder -zinc dust (pyrophoric), lead Marine pollutant: No Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. 	· Transport hazard class(es)	
 Label ADN/R Class: Not Regulated Packing group DOT, ADR, IMDG, IATA Not Regulated Environmental hazards: Product contains environmentally hazardous substance zinc powder -zinc dust (pyrophoric), lead Marine pollutant: No Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	· DOT, ADR, IMDG, IATA	
 ADN/R Class: Not Regulated Packing group DOT, ADR, IMDG, IATA Not Regulated Environmental hazards: Product contains environmentally hazardous substance zinc powder -zinc dust (pyrophoric), lead Marine pollutant: No Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. 		Not Regulated
 Packing group DOT, ADR, IMDG, IATA Environmental hazards: Product contains environmentally hazardous substant zinc powder -zinc dust (pyrophoric), lead Marine pollutant: No Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. 		-
 DOT, ADR, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. 		Not Regulated
 Environmental hazards: Product contains environmentally hazardous substant zinc powder -zinc dust (pyrophoric), lead Marine pollutant: Special precautions for user Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. 		
zinc powder -zinc dust (pyrophoric), lead Marine pollutant: No Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.		•
Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Not applicable.	· Environmental hazards:	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	· Marine pollutant:	No
MARPOL73/78 and the IBC Code Not applicable.		
		ll of
IN "Model Pequilation":		Not applicable.
	• UN "Model Regulation":	-

(Contd. on page 9)

Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/01/2015

Reviewed on 07/01/2015

Trade name: Brass

(Contd. of page 8)

None of the ingredients is listed. Section 313 (Specific toxic chemical listings): Substance / component not listed individually, but listed under family group as Zinc salts. All ingredients are listed. TSCA (Toxic Substances Control Act): All ingredients are listed. Proposition 65 (California) Chemicals known to cause cancer: 7439-92-1 lead Chemicals known to cause reproductive toxicity for females: 7439-92-1 lead Chemicals known to cause reproductive toxicity for males: 7439-92-1 lead Chemicals known to cause developmental toxicity: 7439-92-1 lead Chemicals known to cause developmental toxicity: 7439-92-1 lead Carcinogenic categories EPA (Environmental Protection Agency) 7440-50-8 [copper] D 7439-92-1 lead D IARC (International Agency for Research on Cancer) 7439-92-1 lead TLV (Threshold Limit Value established by ACGIH) 7439-92-1 lead INOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. State Right to Know Listings None of the ingr	Regulatory information	
None of the ingredients is listed. Section 313 (Specific toxic chemical listings): Substance / component not listed individually, but listed under family group as Zinc salts. All ingredients are listed. TSCA (Toxic Substances Control Act): All ingredients are listed. Proposition 65 (California) Chemicals known to cause cancer: 7439-92-1 lead Chemicals known to cause reproductive toxicity for females: 7439-92-1 lead Chemicals known to cause reproductive toxicity for males: 7439-92-1 lead Chemicals known to cause developmental toxicity: 7439-92-1 lead Chenicals known to cause developmental toxicity: 7439-92-1 lead D 7440-50-8 copper D 7439-92-1 lead B2 IARC (International Agency for Research on Cancer) 7439-92-1 lead 7439-92-1 lead I None of the ingredients is listed. I	United States (USA)	or mixture
Section 313 (Specific toxic chemical listings): Substance / component not listed individually, but listed under family group as Zinc salts. All ingredients are listed. TSCA (Toxic Substances Control Act): All ingredients are listed. Proposition 65 (California) Chemicals known to cause cancer: 7439-92-1 lead Chemicals known to cause reproductive toxicity for females: 7439-92-1 lead Chemicals known to cause reproductive toxicity for males: 7439-92-1 lead Chemicals known to cause developmental toxicity: 7439-92-1 lead Chemicals known to cause developmental toxicity: 7440-66-6 Zinc powder -zinc dust (pyrophoric) 7440-66-6 Zinc powder -zinc dust (pyrophoric) 7439-92-1 lead Iead Carclingenic categories EPA (Environmental Protection Agency) 7440-66-6 Zinc powder -zinc dust (pyrophoric) 7439-92-1 lead IPAG (International Agency for Research on Cancer) 7439-92-1 lead INCSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. State Right to Know List	· Section 355 (extremely hazardous substances):	
Substance / component not listed individually, but listed under family group as Zinc salts. All ingredients are listed. TSCA (Toxic Substances Control Act): All ingredients are listed. Proposition 65 (California) Chemicals known to cause cancer: 7439-92-1 ead Chemicals known to cause reproductive toxicity for females: 7439-92-1 ead Chemicals known to cause reproductive toxicity for males: 7439-92-1 ead Chemicals known to cause developmental toxicity: 7439-92-1 ead Chemicals known to cause developmental toxicity: 7439-92-1 ead Chemicals known to cause developmental toxicity: 7439-92-1 ead Chemicals categories EPA (Environmental Protection Agency) 7440-65-8 copper 7440-65-8 copper Alt (International Agency for Research on Cancer) 7439-92-1 ead ILV (Intershold Limit Value established by ACGIH) 7439-92-1 ead None of the ingredients is listed. State Right to Know Listings None of the ingredients is listed. Canadian Domestic Substances List (DSL) All ingredients are listed. Canadian Ingredient Disclosure list (limit 0.1%)	None of the ingredients is listed.	
TSCA (Toxic Substances Control Act): All ingredients are listed. Proposition 65 (California) Chemicals known to cause cancer: 7439-92-1 lead Chemicals known to cause reproductive toxicity for females: 7439-92-1 lead Chemicals known to cause reproductive toxicity for males: 7439-92-1 lead Chemicals known to cause developmental toxicity: 7439-92-1 lead Chemicals known to cause developmental toxicity: 7439-92-1 lead Carcinogenic categories EPA (Environmental Protection Agency) 7440-60-8 copper 7439-92-1 ead D 7440-66-6 zinc powder -zinc dust (pyrophoric) 7439-92-1 ead IARC (International Agency for Research on Cancer) 7439-92-1 ead IV (Threshold Limit Value established by ACGIH) 7439-92-1 ead INOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. State Right to Know Listings None of the ingredients is listed. Canadian substance Listings: Canadian nomestic Substances List (DSL) All ingredients are listed. <td>• Section 313 (Specific toxic chemical listings): Substance / component not listed individually, but listed under family group as Zinc salts.</td> <td></td>	• Section 313 (Specific toxic chemical listings): Substance / component not listed individually, but listed under family group as Zinc salts.	
All ingredients are listed. Proposition 65 (California) Chemicals known to cause cancer: 7439-92-1 lead Chemicals known to cause reproductive toxicity for females: 7439-92-1 read Chemicals known to cause reproductive toxicity for males: 7439-92-1 lead Chemicals known to cause developmental toxicity: 7439-92-1 read Carcinogenic categories EPA (Environmental Protection Agency) 7440-66-6 Zinc powder -zinc dust (pyrophoric) 7439-92-1 lead D 7440-66-6 Zinc powder -zinc dust (pyrophoric) 7439-92-1 lead JARC (International Agency for Research on Cancer) 7439-92-1 read IV (Threshold Limit Value established by ACGIH) 7439-92-1 read IV (Threshold Limit Value established by ACGIH) 7439-92-1 read IV (Threshold Limit Value established by ACGIH) 7439-92-1 Read	All ingredients are listed.	
Proposition 65 (California) • Chemicals known to cause cancer: 7439-92-1 read • Chemicals known to cause reproductive toxicity for females: 7439-92-1 read • Chemicals known to cause reproductive toxicity for males: 7439-92-1 read • Chemicals known to cause reproductive toxicity for males: 7439-92-1 read • Chemicals known to cause developmental toxicity: 7439-92-1 read • Carcinogenic categories • EPA (Environmental Protection Agency) 7440-50-8 copper 7440-66-6 zinc powder -zinc dust (pyrophoric) 7439-92-1 lead • IARC (International Agency for Research on Cancer) 7439-92-1 lead • IARC (International Agency for Research on Cancer) 7439-92-1 lead • TLV (Threshold Limit Value established by ACGIH) 7439-92-1 lead • None of the ingredients is listed. • Canadian substance listings: • Canadian substance listings: • Canadian substance listings: • Canadian logredient Di	· TSCA (Toxic Substances Control Act):	
Chemicals known to cause cancer: 7439-92-1 Iead Chemicals known to cause reproductive toxicity for females: 7439-92-1 Iead Chemicals known to cause reproductive toxicity for males: 7439-92-1 Iead Chemicals known to cause developmental toxicity: 7439-92-1 Iead Chemicals known to cause developmental toxicity: 7439-92-1 Iead Carcinogenic categories EPA (Environmental Protection Agency) 7440-60-8 zinc powder -zinc dust (pyrophoric) D 7439-92-1 Iead IARC (International Agency for Research on Cancer) 7439-92-1 Iead IV (Threshold Limit Value established by ACGIH) 7439-92-1 Iead NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. State Right to Know Listings None of the ingredients is listed. Canadian substance listings: Canadian Domestic Substances List (DSL) All ingredients are listed. <td>All ingredients are listed.</td> <td></td>	All ingredients are listed.	
7439-92-1 lead • Chemicals known to cause reproductive toxicity for females: 7439-92-1 7439-92-1 lead • Chemicals known to cause reproductive toxicity for males: 7439-92-1 7439-92-1 lead • Chemicals known to cause developmental toxicity: 7439-92-1 7439-92-1 lead • Carcinogenic categories 0 • EPA (Environmental Protection Agency) 0 7440-50-8 copper 0 7440-66-6 zinc powder -zinc dust (pyrophoric) D, I, 7439-92-1 lead B2 • IARC (International Agency for Research on Cancer) 7439-92-1 lead • TLV (Threshold Limit Value established by ACGIH) 7 7 7439-92-1 lead 2 / • NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. / • State Right to Know Listings None of the ingredients is listed. . • Canadian substance listings: . . • Canadian Domestic Substances List (DSL) . . All ingredients are listed. . .	· Proposition 65 (California)	
Chemicals known to cause reproductive toxicity for females: 7439-92-1 lead Chemicals known to cause reproductive toxicity for males: 7439-92-1 lead Chemicals known to cause developmental toxicity: 7439-92-1 read Carcinogenic categories EPA (Environmental Protection Agency) 7440-50-8 copper 7439-92-1 lead D 7440-66-6 zinc powder -zinc dust (pyrophoric) D, I, 7439-92-1 lead Iead B2 IARC (International Agency for Research on Cancer) 7439-92-1 read Iead INOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. State Right to Know Listings None of the ingredients is listed. None of the ingredients is listed. Canadian substance listings: Canadian Domestic Substances List (DSL) All ingredients are listed. Canadian Ingredient Disclosure list (limit 0.1%) Canadian Ingredient Disclosure list (limit 0.1%)	· Chemicals known to cause cancer:	
7439-92-1 lead Chemicals known to cause reproductive toxicity for males: 7439-92-1 lead Chemicals known to cause developmental toxicity: 7439-92-1 lead Carcinogenic categories EPA (Environmental Protection Agency) 7440-50-8 copper 7440-50-8 copper 7440-66-6 zinc powder -zinc dust (pyrophoric) D, I, 7439-92-1 lead B2 IARC (International Agency for Research on Cancer) 7439-92-1 lead 2 INOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. 5 State Right to Know Listings None of the ingredients is listed. Canadian substance listings: Canadian Domestic Substances List (DSL) All ingredients are listed. Canadian Ingredient Disclosure list (limit 0.1%)	7439-92-1 lead	
Chemicals known to cause reproductive toxicity for males: 7439-92-1 lead Chemicals known to cause developmental toxicity: 7439-92-1 read Carcinogenic categories EPA (Environmental Protection Agency) 7440-50-8 copper 7439-92-1 lead 7440-66-6 zinc powder -zinc dust (pyrophoric) D, I, 7439-92-1 lead B2 IARC (International Agency for Research on Cancer) 7439-92-1 lead 7439-92-1 lead 2 INCSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. State Right to Know Listings None of the ingredients is listed. Canadian substance listings: Canadian Domestic Substances List (DSL) All ingredients are listed. Canadian Ingredient Disclosure list (limit 0.1%)	Chemicals known to cause reproductive toxicity for females:	
7439-92-1 lead • Chemicals known to cause developmental toxicity: 7439-92-1 7439-92-1 lead • Carcinogenic categories • • EPA (Environmental Protection Agency) 0 7440-50-8 copper 7440-66-6 zinc powder -zinc dust (pyrophoric) 0, I, 7439-92-1 lead B2 • IARC (International Agency for Research on Cancer) 7439-92-1 lead • TLV (Threshold Limit Value established by ACGIH) 7439-92-1 lead • NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. • State Right to Know Listings None of the ingredients is listed. • • Canadian substance listings: • • • Canadian Domestic Substances List (DSL) All ingredients are listed. •	7439-92-1 lead	
7439-92-1 lead • Chemicals known to cause developmental toxicity: 7439-92-1 7439-92-1 lead • Carcinogenic categories • • EPA (Environmental Protection Agency) 0 7440-50-8 copper 7440-66-6 zinc powder -zinc dust (pyrophoric) 0, I, 7439-92-1 lead B2 • IARC (International Agency for Research on Cancer) 7439-92-1 lead • TLV (Threshold Limit Value established by ACGIH) 7439-92-1 lead • NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. • State Right to Know Listings None of the ingredients is listed. • • Canadian substance listings: • • • Canadian Domestic Substances List (DSL) All ingredients are listed. •	• Chemicals known to cause reproductive toxicity for males:	
7439-92-1 lead Carcinogenic categories EPA (Environmental Protection Agency) 7440-50-8 copper 7440-66-6 zinc powder -zinc dust (pyrophoric) D, I, 7439-92-1 lead B2 IARC (International Agency for Research on Cancer) 7439-92-1 lead 2 ILRC (International Agency for Research on Cancer) 7439-92-1 lead 2 INC (International Agency for Research on Cancer) 7439-92-1 lead 2 INC (International Agency for Research on Cancer) 7439-92-1 lead 2 INC (International Institute of Occupational Safety and Health) None of the ingredients is listed. 7 State Right to Know Listings None of the ingredients is listed. 6 Canadian substance listings: Canadian Domestic Substances List (DSL) All ingredients are listed. 7 Canadian Ingredient Disclosure list (limit 0.1%)	· ·	
7439-92-1 lead Carcinogenic categories EPA (Environmental Protection Agency) 7440-50-8 copper 7440-66-6 zinc powder -zinc dust (pyrophoric) D, I, 7439-92-1 lead B2 IARC (International Agency for Research on Cancer) 7439-92-1 lead 2 ILRC (International Agency for Research on Cancer) 7439-92-1 lead 2 INC (International Agency for Research on Cancer) 7439-92-1 lead 2 INC (International Agency for Research on Cancer) 7439-92-1 lead 2 INC (International Institute of Occupational Safety and Health) None of the ingredients is listed. 7 State Right to Know Listings None of the ingredients is listed. 6 Canadian substance listings: Canadian Domestic Substances List (DSL) All ingredients are listed. 7 Canadian Ingredient Disclosure list (limit 0.1%)	Chemicals known to cause developmental toxicity:	
EPA (Environmental Protection Agency) 7440-50-8 copper D 7440-66-6 zinc powder -zinc dust (pyrophoric) D, I, 7439-92-1 lead B2 • IARC (International Agency for Research on Cancer) 7439-92-1 lead 7439-92-1 lead 2 • TLV (Threshold Limit Value established by ACGIH) 7 7439-92-1 lead 2 • NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. • State Right to Know Listings None of the ingredients is listed. • Canadian substance listings: • • Canadian Domestic Substances List (DSL) All ingredients are listed. • Canadian Ingredient Disclosure list (limit 0.1%) •	7439-92-1 lead	
7440-50-8 copper D 7440-66-6 zinc powder -zinc dust (pyrophoric) D, I, 7439-92-1 lead B2 IARC (International Agency for Research on Cancer) 7439-92-1 lead 2 7439-92-1 lead 2 2 NIOSH-Ca (National Institute for Occupational Safety and Health) 7 7 None of the ingredients is listed. 5 5 5 State Right to Know Listings 7 7 7 None of the ingredients is listed. 5 5 5 Canadian substance listings: 5 5 6 Canadian Domestic Substances List (DSL) 7 7 All ingredients are listed. 5 5 5 Canadian Ingredient Disclosure list (limit 0.1%) 5 5 5	· Carcinogenic categories	
7440-66-6 zinc powder -zinc dust (pyrophoric) D, I, 7439-92-1 lead B2 IARC (International Agency for Research on Cancer) 7439-92-1 lead 2 7439-92-1 lead 2 2 TLV (Threshold Limit Value established by ACGIH) 2 2 7439-92-1 lead 2 NIOSH-Ca (National Institute for Occupational Safety and Health) 4 None of the ingredients is listed. 2 State Right to Know Listings 2 None of the ingredients is listed. 2 Canadian substance listings: 2 Canadian Domestic Substances List (DSL) 4 All ingredients are listed. 5 Canadian Ingredient Disclosure list (limit 0.1%) 5	· EPA (Environmental Protection Agency)	
7439-92-1 lead B2 · IARC (International Agency for Research on Cancer) 7439-92-1 lead 2 · TLV (Threshold Limit Value established by ACGIH) 7439-92-1 lead 4 · NIOSH-Ca (National Institute for Occupational Safety and Health) A A None of the ingredients is listed. • State Right to Know Listings • None of the ingredients is listed. • • Canadian substance listings: • • Canadian Domestic Substances List (DSL) All ingredients are listed. • • • Canadian Ingredient Disclosure list (limit 0.1%) • • •	7440-50-8 copper	D
• IARC (International Agency for Research on Cancer) 7439-92-1 lead 2 • TLV (Threshold Limit Value established by ACGIH) 7 7439-92-1 lead 4 • NIOSH-Ca (National Institute for Occupational Safety and Health) 4 None of the ingredients is listed. 5 • State Right to Know Listings 8 None of the ingredients is listed. 5 • Canadian substance listings: 6 • Canadian Domestic Substances List (DSL) 4 All ingredients are listed. 5 • Canadian Ingredient Disclosure list (limit 0.1%) 6		D, I,
7439-92-1 lead 2 * TLV (Threshold Limit Value established by ACGIH) 7439-92-1 lead ////////////////////////////////////	7439-92-1 lead	B2
• TLV (Threshold Limit Value established by ACGIH) 7439-92-1 lead • NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. • State Right to Know Listings None of the ingredients is listed. • Canadian substance listings: • Canadian Domestic Substances List (DSL) All ingredients are listed. • Canadian Ingredient Disclosure list (limit 0.1%)	· IARC (International Agency for Research on Cancer)	
7439-92-1 lead // · NIOSH-Ca (National Institute for Occupational Safety and Health) // None of the ingredients is listed. // · State Right to Know Listings // None of the ingredients is listed. // · Canadian substance listings: // · Canadian Domestic Substances List (DSL) // All ingredients are listed. // · Canadian Ingredient Disclosure list (limit 0.1%) //	7439-92-1 lead	2
 NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. State Right to Know Listings None of the ingredients is listed. Canadian substance listings: Canadian Domestic Substances List (DSL) All ingredients are listed. Canadian Ingredient Disclosure list (limit 0.1%) 	TLV (Threshold Limit Value established by ACGIH)	-
None of the ingredients is listed. • State Right to Know Listings None of the ingredients is listed. • Canadian substance listings: • Canadian Domestic Substances List (DSL) All ingredients are listed. • Canadian Ingredient Disclosure list (limit 0.1%)	7439-92-1 lead	A
State Right to Know Listings None of the ingredients is listed. Canadian substance listings: Canadian Domestic Substances List (DSL) All ingredients are listed. Canadian Ingredient Disclosure list (limit 0.1%)	NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed. • Canadian substance listings: • Canadian Domestic Substances List (DSL) All ingredients are listed. • Canadian Ingredient Disclosure list (limit 0.1%)	None of the ingredients is listed.	
None of the ingredients is listed. • Canadian substance listings: • Canadian Domestic Substances List (DSL) All ingredients are listed. • Canadian Ingredient Disclosure list (limit 0.1%)	· State Right to Know Listings	
Canadian substance listings: Canadian Domestic Substances List (DSL) All ingredients are listed. Canadian Ingredient Disclosure list (limit 0.1%)		
Canadian Domestic Substances List (DSL) All ingredients are listed. Canadian Ingredient Disclosure list (limit 0.1%)	· Canadian substance listings:	
All ingredients are listed. Canadian Ingredient Disclosure list (limit 0.1%)		
•		
•	· Canadian Ingredient Disclosure list (limit 0.1%)	
	•	

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/01/2015

Reviewed on 07/01/2015

Trade name: Brass

(Contd. of page 9)

Canadian Ingredient Disclosure list (limit 1%)

7440-50-8 copper

· Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision 07/01/2015 / -

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Carc. 2: Carcinogenicity, Hazard Category 2 Repr. 1A: Reproductive toxicity, Hazard Category 1A STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1 Sources SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com