

# TIN COATED PHOSPHOR BRONZE

(Wieland NA SDS No: 01451.0001)

EMERGENCY PHONE: 1-618-258-5167

This product consists of a base metal alloy coated with another metal. Attached are Safety Data Sheets (SDS) for the following metal products:

Base Metal – >99% - Cold Rolled Steel Tin Coating – <1% - Tin Alloy

THIS SAFETY DATA SHEET (SDS) KIT HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

THE INFORMATION IN THE ENCLOSED SDSs SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. WIELAND BELIEVES THIS INFORMATIONTO BE RELIABLE AND UPTO DATE AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF AN SDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT WIELAND AT THE PHONE NUMBER BELOW TO MAKE CERTAIN THAT THE SDS IS CURRENT.

SDS Control Group

Wieland NA

305 Lewis and Clark Blvd East Alton, IL 62024-1197 Phone Number: (618) 258-5654

www.wieland.com



## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: COATED COLD ROLLED CARBON STEEL

Chemical Name: Metal Alloy

Synonyms: Carbon Steel Alloys
Chemical Family: Metal/Mixture

Formula: Not applicable - mixture

Product Use: Metallurgical Products, Tin Coated Products

Manufacturer:

SDS Control Group Technical Information: Emergency Information:

Wieland NA (618)258-5654 (618)258-5167

305 Lewis and Clark Blvd East Alton, IL 62024-1197 www.wieland.com

## 2. HAZARD IDENTIFICATION

## United States (US)

According to the OSHA 29 CFR 1910.1200 HCS

Health hazards associated with this product only apply in a fume or dust form.

Classification of the substance or mixture (Fume or Dust)

OSHA HCS 2012 Flammability – 0 Health – 1 Physical – 0

Label Elements OSHA HSC 2012



**Hazard Statements** Causes skin irritation – H315

May cause respiratory irritation - H335

**Precautionary statements** Avoid breathing dust or fumes – P261

**Prevention** Avoid breathing dust or fumes – P261

Do not get in eyes, on skin, or on clothing - P262

In case of inadequate ventilation wear respiratory protection – P285

Response

Wieland NA SDS No.:01451.000 Tin Coated Cold Rolled Carbon Steel



EYE CONTACT: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. - P305 + P351 + P338.

If eye irritation develops, Get medical advice/attention - P313

SKIN CONTACT: Rinse skin with water/shower – P353

Take off contaminated clothing and wash before reuse - P362

If skin irritation or rash develops, get medical advice/attention - P363

INHALATION: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

breathing - P340

Get medical advice/attention - P313

INGESTION: Not a likely route of exposure for finished metal alloy.

If dust is ingested, immediately drink water to dilute.

Get medical advice/attention - P363

NOTE TO PHYSICIANS: There is no specific antidote to the active ingredients in this product; use symptomatic treatment.

Other Hazards

OSHA HSC 2012 Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product

is considered hazardous.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Exposure to dust or fume may aggravate an existing dermatitis, asthma, emphysema, or other respiratory disease.

Canada According to WHMIS

Classification of the substance or mixture

WHMISThis product is considered to be a manufactured article and therefore not subject to WHMIS requirements.

Other Information

NFPA Not rated

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number	Components	% By Weight	EINECS/ ELINCS	EU Classification	
				Symbol	R-Phrase
7439-89-6	Iron	60 - 100	231-096-4	None	None
7439-96-5	Manganese	1 - 5	231-105-1	None	None
Not applicable – mixture	Coating*	0 - 3	None	None	None

<sup>\*</sup>May consist of phenolic resins, synthetic rubbers, and carbon black at low concentrations.

OSHA REGULATORY STATUS: In solid form, not hazardous. Dust or fume: carcinogen, irritant, lung, blood, kidney, reproductive and

developmental toxin, neurotoxin, sensitizer

In solid form, this material is not hazardous. Dust and fumes are hazardous materials.

### 4. FIRST AID MEASURES

Wieland NA SDS No.:01451.000 Tin Coated Cold Rolled Carbon Steel



**EYE CONTACT:** Immediately flush out fume and dust particles with large amounts of water for at least 15 minutes,

occasionally lifting the upper and lower eyelids. If eye irritation develops, call a physician at once.

If exposed to dust or fumes, wash skin with plenty of water. Remove contaminated clothing and shoes SKIN CONTACT:

and launder before reuse. If skin irritation or rash develops and persists or recurs, get medical

INHALATION: If symptoms of lung irritation occur (coughing, wheezing or breathing difficulty), remove from exposure

area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep affected

person warm and at rest. Get medical attention.

Not a likely route of exposure for finished metal alloy. If dust is ingested, immediately drink water to INGESTION:

dilute. Consult a physician if symptoms develop.

**NOTE TO PHYSICIANS:** There is no specific antidote to the active ingredients in this product; use symptomatic treatment.

#### FIRE FIGHTING MEASURES

PROPERTY	VALUE	PROPERTY	VALUE
Explosive	No	Flammable	No
Combustible	No	Pyrophoric	No
Flash Point (°C):	Not Applicable	Burning Rate of Material	Not Applicable
Lower Explosive Limit:	Not Applicable	Auto Ignition Temp:	Not Applicable
Upper Explosive Limit:	Not Applicable	Flammability Classification: (Defined by 29 CFR	Not Applicable
		1910.1200)	

UNSUAL FIRE AND EXPLOSION HAZARDS: Dust may cause an ignitable and/or an explosive atmosphere.

For localized powder fires, smother with dry sand, dry dolomite, sodium **EXTINGUISHING MEDIA:** chloride or soda ash. Use fire-extinguishing media appropriate to fight

surrounding fire.

SPECIAL FIREFIGHTING PROCEDURES: None required.

### **ACCIDENTAL RELEASE MEASURES**

#### FOR ALL TRANSPORTATION ACCIDENTS, CALL (618) 258-5167.

Not applicable to steel in solid state. For spills involving finely divided particles, clean-up personnel should be protected against contact with eyes and skin. Fine, dry material should be removed by vacuuming or wet sweeping methods to prevent spreading of dust. Avoid using compressed air. Do not release into sewers or waterways. Collect material in appropriate, labeled containers for recovery or disposal in accordance with federal, state, and local regulations.

### **HANDLING AND STORAGE**

HANDLING:	No special requirements.
STORAGE:	No special requirements.

Wieland NA SDS No.:01451.000 Tin Coated Cold Rolled Carbon Steel



Shelf Life Limitations:	None known
Incompatible Materials for Packaging:	None known
Incompatible Materials for Storage or Transport:	Store away from acids and incompatible materials.
OTHER PRECAUTIONS:	Do not shake clothing, rags or other items to remove dust.
	Dust should be removed by washing or HEPA vacuuming.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS#	CHEMICAL NAME	ACGIH TLV	OSHA PEL	INTERNATIONAL OELS	
7439-89-6	Iron	None established	None established	None established	
7439-96-5	Manganese	0.2 mg/m3	Ceiling – 5 mg/m3	Belgium, Denmark, Finland, France,	
				Switzerland, U.K. – 1 mg/m3	
				Sweden – 2.5 mg/m3	
				Germany (MAK) – 0.5 mg/m3	

<sup>\*</sup>This substance is regulated by OSHA as a Particulate Not Otherwise Regulated (PNOR). The exposure limits listed for both OSHA and ACGIH refer to total dust; the OSHA PEL for the respirable fraction is 5 mg/m<sup>3</sup>.

**ENGINEERING CONTROLS:** Local exhaust ventilation is recommended if significant dusting occurs or fumes

are generated. Otherwise, use general exhaust ventilation.

**EYE / FACE PROTECTION:** Use safety glasses.

**SKIN PROTECTION:** Wear impervious (cut-resistant), gloves and other protective clothing (aprons,

coveralls) as appropriate. If handling heated materials, use heat resistant gloves

and clothing. Wash hands after handling.

**RESPIRATORY PROTECTION:** Respiratory protection not normally needed. If dusting occurs or fumes are

generated above the PEL/TLV, use a NIOSH-approved half-face or full-face respirator equipped with High Efficiency Particulate (HEPA) filter cartridges.

**GENERAL HYGIENE CONSIDERATIONS:** Do not eat, drink, or smoke while using this product in dust form.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	VALUE PROPERTY		VALUE
Appearance.	Metallic gray	Vapor Density (air = 1).	Not applicable
Odor:	None	Boiling Point (° F).	No data
Molecular Weight.	Not applicable - Mixture	Melting point:.	2750°F
Physical State.	Solid	Specific gravity (g/cc).	7.85
рН:	Not applicable	Bulk Density.	No data
Vapor Pressure (mm Hg):	Not applicable	Viscosity (cps).	Not applicable

Wieland NA SDS No.:01451.000

Tin Coated Cold Rolled Carbon Steel

Revision Date: 6/1/15



Vapor Density.	Not applicable	Decomposition:	Not applicable
Solubility in Water (20°C):	Negligible	Evaporation Rate.	
Volatiles, Percent by volume:	Not applicable	Octanol/water partition coefficient:.	Unknown

	STABILITY:	Stable under normal temperatures and pressure			
	CONDITIONS TO AVOID:	Storage with strong acids or calcium hypochlorite.			
		Will react with strong acids to form hydrogen.			
		Iron oxide dusts			
	HAZARDOUS DECOMPOSITION PRODUCTS:	When heated to decomposition, may produce metal oxides and fumes. Inhalation of			
10.	STABILITY AND REACTIVITY				
i	HAZARDOUS POLYMERIZATION:	Will not occur.			

## 11. TOXICOLOGICAL INFORMATION

<u>POTENTIAL EXPOSURE ROUTES:</u> For dust: ingestion, inhalation, and eye contact. For fume: inhalation and eye contact. The finished alloy metal is not hazardous.

## **ACUTE ANIMAL TOXICITY DATA:**

. [		For Product:	For Components		
			Iron	Manganese	
	Oral LD50 Believed to be > 5 g/kg		30 g/kg (rat)	9 g/kg (rat)	
	Dermal LD 50 Believed to be > 2 g/kg		No Data	No Data	
	Inhalation LC50	Believed to be slightly to moderately toxic	No Data	No Data	
	Irritation	Eye and respiratory irritant	Eye irritant	Mild skin & eye irritant	

SUBCHRONIC/ CHRONIC TOXICITY:	No information for product.
<u>CARCINOGENICITY</u> :	This product is not known or reported to be carcinogenic by OSHA, IARC, NTP, ACGIH, or EPA.
MUTAGENICITY:	This product is not known or reported to be mutagenic.

Wieland NA SDS No.:01451.000 Revision Date: 6/1/15 Tin Coated Cold Rolled Carbon Steel



REPRODUCTIVE, TERATOGENICITY, OR	
DEVELOPMENTAL EFFECTS:	This product is not known or reported to cause reproductive or developmental effects.
NEUROLOGICAL EFFECTS:	This product is not known or reported to cause neurological effects. Chronic exposure to very high concentrations of manganese dust has caused nervous system effects including muscle weakness, tremors, and behavioral changes in humans.
INTERACTIONS WITH OTHER CHEMICALS	
WHICH ENHANCE TOXICITY:	None known or reported.

## 12. ECOLOGICAL INFORMATION

ECOTOXICITY: No data is available on this product

MOBILITY: No Data

PERSISTANCE/DEGRADABILITY: No Data

BIOACCUMULATION: No Data

## 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D. Care must be taken to prevent environmental contamination from the use of this material. 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 non- hazardous wastes. This product may be a candidate for metal reclamation.

## 14. TRANSPORTATION INFORMATION

	U.S. DOT	RID/ADR	IMDG	IATA	IMO	Canada TDG
PROPER SHIPPING NAME:			Not regu	lated		
HAZARD CLASS:			rvotrega	iatea		
UN NO.:						
PACKING GROUP:						
LABEL:						
REPORTARIE OLIANITITY						

## 15. REGULATORY INFORMATION

**US FEDERAL** 

TSCA	The components of this product are listed on the Toxic Substance Control Act inventory.
------	---

Wieland NA SDS No.:01451.000

Tin Coated Cold Rolled Carbon Steel

Revision Date: 6/1/15



CERCLA:	None reported						
SARA 313:	Manganese	Manganese					
SARA 313 Hazard Class:	<u>Health</u> .	Acute – No Chronic - No	<u>Fire</u> : None	<i>Reactivity:</i> None	Release of Pressure. None		
SARA 302 EHS List:	None of the components	None of the components of this product are listed.					

<sup>\*</sup>RQ = Reportable Quantity

#### STATE RIGHT-TO-KNOW STATUS

Component	*CA Prop. 65	New Jersev	Pennsylvania	Massachusetts	Michigan
Iron	Not listed	Not listed	Not listed	Not listed	Not listed
Manganese	Not listed	Χ	Χ	Χ	Not listed

### **EUROPEAN REGULATIONS**

This material in its massive solid form is not required to be labeled under EC regulations. German WGK Classification: Unknown

#### **CANADIAN REGULATIONS**

DSL LIST: The components of this product are on the DSL or are exempt from reporting under the New Substances

Notification Regulations.

**IDL:** Manganese

WHMIS: This product is considered to be a manufactured article and therefore not subject to WHMIS requirements.

# 16. OTHER INFORMATION

REVISIONS: Update to composition 1/1/04, revised format 6/1/15

PREPARED BY: Wieland NA

NOTICE: THE INFORMATION IN THIS SDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. WIELAND NA BELIEVES THIS INFORMATION TO BE RELIABLE AND CURRENT AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS.

This document reviewed annually

Wieland NA SDS No.:01451.000 Tin Coated Cold Rolled Carbon Steel



## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: TIN ALLOY
Chemical Name: Metal Alloy

Synonyms: Metallic tin Coatings and Tin based Tin/Lead Formulation Solders/Alloys

Chemical Family: Copper

Formula: Not applicable - mixture

Product Use: Metallurgical Products

Manufacturer:

SDS Control Group Technical Information: Emergency Information:

Wieland NA (618)258-5654 (618)258-5167

305 Lewis and Clark Blvd East Alton, IL 62024-1197

www.wieland.com

## 2. HAZARD IDENTIFICATION

# United States (US)

According to the OSHA 29 CFR 1910.1200 HCS

Health hazards associated with this product only apply in a fume or dust form.

Classification of the substance or mixture (Fume or Dust)

OSHA HCS 2012 Flammability -0 Health -1 Physical -0

Label Elements OSHA HSC 2012



**Hazard Statements** Causes skin irritation – H315

Wieland NA SDS No.:01451.000 Tin Coated Cold Rolled Carbon Steel



May cause respiratory irritation – H335

**Precautionary statements** Avoid breathing dust or fumes – P261

**Prevention** Avoid breathing dust or fumes – P261

Do not get in eyes, on skin, or on clothing - P262

In case of inadequate ventilation wear respiratory protection – P285

Response

EYE CONTACT: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. - P305 + P351 + P338.

If eye irritation develops, Get medical advice/attention – P313

SKIN CONTACT: Rinse skin with water/shower – P353

Take off contaminated clothing and wash before reuse – P362

If skin irritation or rash develops, get medical advice/attention – P363

<u>INHALATION:</u> If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

breathing - P340

Get medical advice/attention - P313

<u>INGESTION:</u> Not a likely route of exposure for finished metal alloy.

If dust is ingested, immediately drink water to dilute.

Get medical advice/attention - P363

NOTE TO PHYSICIANS: There is no specific antidote to the active ingredients in this product; use symptomatic treatment.

Other Hazards

OSHA HSC 2012 Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product

is considered hazardous.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Exposure to dust or fume may aggravate an existing dermatitis,

asthma, emphysema, or other respiratory disease.

Canada According to WHMIS

Classification of the substance or mixture

WHMIS This product is considered to be a manufactured article and therefore not subject to WHMIS requirements.

Other Information

**NFPA** Not rated

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number	Components	% By Weight	EINECS/ELINCS	EU Classification	
			#	Symbol	R-Phrase

Wieland NA SDS No.:01451.000 Tii

Tin Coated Cold Rolled Carbon Steel

Revision Date: 6/1/15



7439-92-1	Lead	0 - 40	231-100-4	None	None
7440-31-5	Tin	60 - 100	231-141-8	None	None

**OSHA REGULATORY STATUS:** In solid form, not hazardous. Dust or fume: carcinogen, irritant, lung, blood, kidney, reproductive and

developmental toxin, neurotoxin, sensitizer

In solid form, this material is not hazardous. Dust and fumes are hazardous materials.

## FIRST AID MEASURES

Immediately flush out fume and dust particles with large amounts of water for at least 15 minutes, **EYE CONTACT:** 

occasionally lifting the upper and lower eyelids. If eye irritation develops, call a physician at once.

SKIN CONTACT: If exposed to dust or fumes, wash skin with plenty of water. Remove contaminated clothing and shoes

and launder before reuse. If skin irritation or rash develops and persists or recurs, get medical

If symptoms of lung irritation occur (coughing, wheezing or breathing difficulty), remove from exposure INHALATION:

area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep affected

person warm and at rest. Get medical attention.

Not a likely route of exposure for finished metal alloy. If dust is ingested, immediately drink water to INGESTION:

dilute. Consult a physician if symptoms develop.

**NOTE TO PHYSICIANS:** There is no specific antidote to the active ingredients in this product; use symptomatic treatment.

### **FIRE FIGHTING MEASURES**

PROPERTY	VALUE	PROPERTY	VALUE
Explosive	No	Flammable	No
Combustible	No	Pyrophoric	No
Flash Point (°C):	Not Applicable	Burning Rate of Material	Not Applicable
Lower Explosive Limit:	Not Applicable	Auto Ignition Temp:	Not Applicable
Upper Explosive Limit:	Not Applicable	Flammability Classification: (Defined by 29 CFR	Not Applicable
		1910.1200)	

**UNSUAL FIRE AND EXPLOSION HAZARDS:** Dust may cause an ignitable and/or an explosive atmosphere.

For localized powder fires, smother with dry sand, dry dolomite, sodium chloride or soda ash. Use fire-extinguishing media appropriate to fight **EXTINGUISHING MEDIA:** 

surrounding fire.

SPECIAL FIREFIGHTING PROCEDURES: None required.

#### **ACCIDENTAL RELEASE MEASURES**

### FOR ALL TRANSPORTATION ACCIDENTS, CALL (618) 258-5167.

In dust form, this product may be an explosion hazard. Remove all sources of ignition. Dust of fume may be suppressed by the use of a local exhaust system. Dispose of per quidelines under Section 13, WASTE DISPOSAL.

Wieland NA SDS No.:01451.000 Tin Coated Cold Rolled Carbon Steel



## 7. HANDLING AND STORAGE

HANDLING:	Avoid dispersion of dust in air
STORAGE:	No special requirements
Shelf Life Limitations:	None known
Incompatible Materials for Packaging:	None known
Incompatible Materials for Storage or Transport:	None known
OTHER PRECAUTIONS:	Do not shake clothing, rags or other items to remove dust.
	Dust should be removed by washing or HEPA vacuuming.
	Do not use compressed air for cleaning or dry sweeping.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS#	CHEMICAL NAME	ACGIH TLV	OSHA PEL	INTERNATIONAL OELS
7439-92-1	Lead	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	Austria, Denmark, Germany, Sweden, Switzerland: 0.1 mg/m <sup>3</sup> Norway, Poland: 0.05 mg/m <sup>3</sup>
7440-31-5	Tin	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	U.K. (LTEL): 5 mg/m <sup>3</sup> Austria & Germany (MAK), Belgium, Finland, Denmark, The Netherlands, Poland, Switzerland: 2 mg/m <sup>3</sup> Hungary, Norway: 1 mg/m <sup>3</sup>

**ENGINEERING CONTROLS:** Local exhaust ventilation is recommended if significant dusting occurs or fumes

are generated. Otherwise, use general exhaust ventilation.

**EYE / FACE PROTECTION:** Use safety glasses.

**SKIN PROTECTION:** Wear impervious (cut-resistant), gloves and other protective clothing (aprons,

coveralls) as appropriate to prevent skin contact when using this product. If generating a dust, wash thoroughly after handling, especially before eating,

drinking, or smoking.

**RESPIRATORY PROTECTION:** Respiratory protection not normally needed. If dusting occurs or fumes are

generated above the PEL/TLV, use a NIOSH-approved half-face or full-face respirator equipped with High Efficiency Particulate (HEPA) filter cartridges.

**GENERAL HYGIENE CONSIDERATIONS:** Do not eat, drink, or smoke while using this product in dust form.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	VALUE	PROPERTY	VALUE
Appearance.	Solid-silver to gray metallic	Vapor Density (air = 1).	Not applicable
Odor:	None	Boiling Point (° F).	1740°C (3164°F)

Wieland NA SDS No.:01451.000

Tin Coated Cold Rolled Carbon Steel

Revision Date: 6/1/15



Molecular Weight.	Not applicable - Mixture	Melting point:.	183 – 324°C (361 - 616°F)
Physical State.	Solid	Specific gravity (g/cc).	5.83 – 11.27
рН:	Not applicable	Bulk Density.	Not applicable
Vapor Pressure (mm Hg).	Not applicable	Viscosity (cps).	Not applicable
Vapor Density.	Not applicable	Decomposition:	Not applicable
Solubility in Water (20°C):	Negligible	Evaporation Rate.	Not Applicable
Volatiles, Percent by volume:	Not applicable	Octanol/water partition coefficient:.	Unknown

## **10. STABILITY AND REACTIVITY**

STABILITY:	Stable under normal temperatures and pressure
CONDITIONS TO AVOID:	Not affected by mechanical impact or shock or by electrical discharge.
MATERIALS TO AVOID:	Strong oxidizers, acids, hydrogen peroxide, chlorine, turpentine, active metals –
	sodium, potassium; powdered lead fused with ammonium nitrate may cause a
	violent reaction.
HAZARDOUS DECOMPOSITION PRODUCTS:	When heated to decomposition, may produce metal oxides and fumes. Inhalation of
	high concentrations of metal fumes may cause a condition known as "metal fume
	fever" which is characterized by flu-like symptoms.
HAZARDOUS POLYMERIZATION:	Will not occur.

# 11. TOXICOLOGICAL INFORMATION

<u>POTENTIAL EXPOSURE ROUTES:</u> For dust: ingestion, inhalation, and eye contact. For fume: inhalation and eye contact. The finished alloy metal is not hazardous.

## ACUTE ANIMAL TOXICITY DATA:

	For Product (dust or fume)	For Components		
		Lead	Tin	
Oral LD50	Believed to be slightly toxic	No data	No data	
Dermal LD50	Believed to be > 2 g/kg	No data	No data	
Inhalation	Believed to be slightly to	No data	No data	
LC50	moderately toxic			
Irritation	Eye and respiratory irritant	Not irritating	No data	

Wieland NA SDS No.:01451.000

Tin Coated Cold Rolled Carbon Steel

Revision Date: 6/1/15



SUBCHRONIC/ CHRONIC TOXICITY: No information for product. Lead has caused blood, kidney, and nervous

system damage in laboratory animals.

CARCINOGENICITY: IARC lists lead as possibly carcinogenic to humans, Group 2B.

MUTAGENICITY:

This product is not known or reported to be mutagenic. Lead has been shown

to be mutagenic in several *in vitro* assays.

REPRODUCTIVE, TERATOGENICITY, OR

DEVELOPMENTAL EFFECTS:

This product is not known or reported to cause reproductive or developmental effects. Lead has been shown to affect fetal development including birth defects

and reduce male reproductive function in laboratory animals.

NEUROLOGICAL EFFECTS:

This product is not known or reported to cause neurological effects. Lead has caused peripheral and central nervous system damage and behavioral effects in

laboratory animals.

INTERACTIONS WITH OTHER CHEMICALS

WHICH ENHANCE TOXICITY: None known or reported.

#### 12. ECOLOGICAL INFORMATION

ECOTOXICITY: No data is available on this product. Individual constituents are as follows:

Lead: LC50 (48 hrs.) to bluegill (*Lepomis macrochirus*) is reported to be 2-5 mg/l. Lead is

toxic to waterfowl.

MOBILITY: Dissolved lead may migrate through soil.

PERSISTANCE/DEGRADABILITY: Not biodegradable. Lead may persist and accumulate in the environment.

BIOACCUMULATION: No Data

## 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D. Care must be taken to prevent environmental contamination from the use of this material. 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 non- hazardous wastes. This product may be a candidate for metal reclamation.

### 14. TRANSPORTATION INFORMATION

	U.S. DOT	RID/ADR	IMDG	IATA	IMO	Canada TDG	
PROPER SHIPPING NAME:	Not regulated						
HAZARD CLASS:	Notregulated						
UN NO.:							

Wieland NA SDS No.:01451.000 Tin Coated Cold Rolled Carbon Steel



PACKING GROUP:
LABEL:
REPORTABLE QUANTITY:

## 15. REGULATORY INFORMATION

#### **US FEDERAL**

TSCA	The components of this product are listed on the Toxic Substance Control Act inventory.					
CERCLA:	Lead, R.Q. = 10 lbs (No reporting is required if diameter of the pieces of metal is equal to or exceeds 100 micrometers (0.004 inches).					
SARA 313:	Lead					
SARA 313 Hazard Class:	<u>Health</u> : For dust or fume only	Acute – No Chronic - Yes	<u>Fire</u> : None	<i>Reactivity:</i> None	Release of Pressure. None	
SARA 302 EHS List:	None of the components of this product are listed.					

<sup>\*</sup>RQ = Reportable Quantity

#### STATE RIGHT-TO-KNOW STATUS

Component	*CA Prop. 65	New Jersev	Pennsylvania	Massachusetts	Michigan
Lead	Χ	Χ	Χ	Χ	Χ
Tin	Not listed	Not listed	Х	Χ	Not listed

<sup>\* &</sup>quot;WARNING: This product contains detectable amounts of a chemical(s) known to the State of California to cause cancer and/or birth defects or other reproductive harm."

#### **EUROPEAN REGULATIONS**

This material is classified as: **Xn, Harmful.** However, this material in its massive solid form is not required to be labeled under EC regulations.

German WGK Classification: Unknown

#### CANADIAN REGULATIONS

DSL LIST: The components of this product are on the DSL or are exempt from reporting under the New Substances

Notification Regulations.

IDL: Lead and Tin

WHMIS: This product is considered to be a manufactured article and therefore not subject to WHMIS requirements.

## 16. OTHER INFORMATION

REVISIONS: Update to composition 1/1/04, revised format 6/1/15

PREPARED BY: Wieland NA

NOTICE: THE INFORMATION IN THIS SDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT,

Wieland NA SDS No.:01451.000 Tin Coated Cold Rolled Carbon Steel



OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. WIELAND NA BELIEVES THIS INFORMATION TO BE RELIABLE AND CURRENT AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS.

This document reviewed annually

Wieland NA SDS No.:01451.000 Revision Date: 6/1/15 Tin Coated Cold Rolled Carbon Steel Review Date: 2/28/20