

Omega® Tin-Lead-Antimony Solder with Rosin Activated

# MATERIAL SAFETY DATA SHEET

Components: MSDS Number: Preparation date: Revision date: Revision Level: TIN / LEAD / ANTIMONY / ROSIN ACTIVATED MSDS-04 January, 2018 January, 2021 03

NA = Not Applicable

NE = Not Established

NAV = Not Available

#### Section 1.- Product and company identification

#### Trade Name:

Omega® Tin-Lead-Antimony solder with Rosin Activated wire of different diameters, it applies to all part numbers with this alloy and resin type.

#### Product Name:

As indicated on the label.

#### Manufacturer:

Omega Aleaciones, S.A. de C.V. Eje 132 No. 120 Zona Industrial San Luis Potosí, S.L.P. Zip code 78395 México E-mail: <u>calidad@omegaaleaciones.com</u> Phone Number: +52 (444) 824 00 03 Fax: +52 (444) 824 11 73

#### Main purpose:

As solder in the metalworking and electronics industries.

#### Section 2.- Hazard identification

#### 2.1 Classification of the substance or mixture





Omega® Tin-Lead-Antimony Solder with Rosin Activated H302: Harmful if swallowed. Acute Tox. 4. H332: Harmful if inhaled. Acute Tox.4. H317: May cause an allergic skin reaction. Skin Sens. 1.

#### GHS08

H351: Suspected of causing cancer. Carc. 2.H360: May damage fertility or the unborn child. Repr. 1.H373: May cause damage to organs through prolonged or repeated exposure. STOT RE 2.

STOT RE: Specific target organ toxicity- repeat exposure

### 2.2 Label elements

#### GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

#### Hazard pictograms



Signal word: Danger

#### Hazard statements

H317: May cause an allergic skin reaction.

H351: Suspected of causing cancer.

H360: May damage fertility or the unborn child.

H373: May cause damage to organs through prolonged or repeated exposure.

H302+H332: Harmful if swallowed or if inhaled.

#### Precautionary statements

P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

- P302 + P352: IF ON SKIN: Wash with plenty of water.
- P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P301 + P312: IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

P308 + P313: IF exposed or concerned: Get medical advice/ attention.

P333 + P313: IF skin irritation or rash occurs: Get medical advice/ attention.

P405: Store locked up.

P501: Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

OSHA/HCS status	This material is considered hazardous by the OSHA Hazard Communication
	Standard (29 CFR 1910.1200).
Emergency Overview	WARNING!



	Omega® Tin-Lead-Antimony Solder with Rosin Activated
	CAUSE EYE IRRITATION, SKIN AND RESPIRATORY TRACT.
	CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.
	CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.
	It irritates the eyes, skin and respiratory tract. Avoid contact with eyes, skin and
	clothing. Do not breathe the dust. Use only with adequate ventilation. Keep the
	container tightly closed and sealed until the time of its use. Wash thoroughly after
	handling.
	Avoid exposure during pregnancy. Avoid contact of the spilled material with ground
	and surface waters.
Routes of entry	Inhalation and Ingestion.

Potential acute health effects		
Eyes	Irritating to eyes.	
Skin	Irritates the skin.	
Inhalation	Inhalation of this or other welding products can cause headache, nausea, and muscle pain.	
Ingestion	Ingestion of this or other welding products can cause headache, nausea, and muscle pain.	
Medical conditions aggravated by overexposure	Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by overexposure to this product. Prolonged or repeated exposure due to the ingestion may cause anemia, insomnia, weakness, constipation and abdominal pain (California Health & Safety Code 25249.5 et seq).	
Chronic	TIN: It has been shown to increase the incidence of sarcoma in animal tests. LEAD: Prolonged exposure to vapors or fumes at higher temperatures may cause respiratory irritation and systematic with lead poisoning. The symptoms of lead poisoning include headache, nausea, abdominal pain, muscular and articular pain and damage to the nervous system, circulatory system and the kidneys. Lead can be harmful to the fetus. ANTIMONY: abdominal cramps and pain, metal fume fever, cough, chills, tremors, muscle weakness. Prolonged or repeated contact may cause dermatitis. Chronic effects are dizziness or can cause dizziness, drowsiness or fatigue and anorexia. May cause adverse reproductive effects in women. ROSIN: May cause allergic skin reactions with repeated exposure. Prolonged inhalation of vapors may cause respiratory sensitization.	

### Section 3.- Composition and information on components

COMPONENT	C. A. S. NUMBER	WEIGHT %	OSHA PEL	ACGIH TLV
Tin	7440-31-5	1.0 - 99.0	2.0 mg/m <sup>3</sup>	2.0 mg/m <sup>3</sup>
Lead	7439-92-1	1.0 - 99.0	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>
Antimony	7440-36-0	0.3 - 5.0	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>
Rosin Activated	8050-09-7	0.5 - 3.3	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>

### Section 4.- First aid measures

Skin:



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MOLTEN PRODUCT: In case of contact, immediately place bags of cold water for at least 15 minutes. Do not put ice directly on the skin. Do not attempt to remove the solidified product of the skin, this could cause damage. Get medical attention immediately.

SOLID PRODUCT: In case of contact, immediately wash skin with soap and plenty of water while removing contaminated clothing and shoes. Wash the clothing before wearing again. Clean the shoes completely before returning it to use. Use lotion to prevent dryness. Get medical attention if irritation persists.

#### Eyes:

MOLTEN PRODUCTS: Wash the burns with plenty of water at low pressure. Get immediate medical attention. SOLID PRODUCT: Check if the victim takes contact lenses and in this case, withdraw them from it. Wash thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if irritation develops.

#### Inhalation:

Move to the affected person in the open air. If you are experiencing the symptoms of overexposure, evacuate to the fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen everything that might be tight, as the collar of a shirt, tie or belt. Get medical attention immediately.

#### Ingestion:

Wash out mouth with water. If the person is conscious, immediately give 2 glasses of water. Do not induce vomiting unless directed to do so by medical personnel. Do not give anything by mouth to an unconscious person. Get medical attention immediately.

#### Protection of first-aiders:

Do not take any action that involves some personal risk or that does not provide for adequate training. If it is suspected that the vapors are still present, the person in charge of the rescue you must use an appropriate mask or a self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### Notes to physician:

Not available.

Flammability of the product	May be combustible at high temperatures.
Hazardous termal	Decomposition products may include the following materials: Carbon
decomposition products	dioxide.
	Carbon monoxide.
	Metal oxide/oxides.
Extinguishing media	Use an extinguishing agent suitable for the surrounding fire. Alcohol
Suitable	foam, carbon dioxide or dry chemical.
Not suitable	None known.
Special exposure hazards	Promptly isolate the scene by removing all persons from the vicinity of
	the incident if there is a fire. No action shall be taken involving any
	personal risk or without suitable training.
	No specific fire or explosion.
	Closed containers may explode when exposed to fire.
Special protective	Fire-fighters should wear appropriate protective equipment and self-
equipment for fire-fighters	contained breathing apparatus with a full face-piece operated in
	positive pressure mode.

#### Section 5.- Fire fighting measures



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#### Section 6.- Accidental release measures

If the material is in its solid state, pick up and reuse. When molten, allow to solidify, and the reuse if it is not contaminated. If contaminated, refer to section 13 for disposal information.

#### Personal precautions:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

#### Environmental precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods for cleaning up:

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

#### Section 7.- Handling and storage

#### Handling:

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Avoid contact with eyes, skin and clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container.

#### Containers:

Empty containers retain product residue and can be hazardous (solids or vapors). Note the precautions in the boxes. Do not expose the containers to heat or flames. Use appropriate containment to avoid environmental contamination.

#### Storage:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep the container away from sources of ignition. Do not store in unlabeled containers.

#### Other storage conditions:

The lifetime of tin base (non-ferrous) solders in solid form (bars and wires) is very long; as long as it is kept in its original packaging and under controlled storage conditions, mainly avoiding moisture and dust. Applying direct heat is the only thing that can modify its shape and physical properties. After 5-10 years it can only lose its shine, but not its functionality.

It is recommended that the relative humidity of the storage area for welding consumables does not exceed 60%, if the ambient temperature falls below 15 °C. The storage temperature should be kept about 2 degrees above room temperature. The reason for this recommendation is to avoid moisture condensation on the consumables. It is important that the storage area is dry.



 $\label{eq:compared} Omega^{\tiny (B)} \mbox{ Tin-Lead-Antimony Solder with Rosin Activated} Recommended storage temperature: 10 <math display="inline">^\circ$  C to 40  $^\circ$  C.

#### Hygiene practices in the workplace:

Wash hands thoroughly after handling welding, before eating or smoking.

#### Section 8.- Exposure controls and personal protection

#### Engineering measures

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Personal protection

#### Eyes:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

#### Respiratory:

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a NIOSH approved respirator when necessary.

#### Hands:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

#### Skin:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Ventilation:

Have adequate ventilation to keep exposure below the limits of allowable concentration in the air.

#### Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Product name	Exposure limits		
Tin	ACGIH TLV (United States, 1/2005).		
	TWA: 2 mg/m <sup>3</sup> 8 hour(s).State: All forms.		
	NIOSH REL (United States, 12/2001). Notes: The REL and PEL also apply to other		
	inorganic tin compounds (as Sn) except tin oxides.		
	TWA: 2 mg/m <sup>3</sup> 10 hour(s). State: All forms.		
	OSHA (United States, 0/1997). Notes: Respirable.		
	TWA: 2 mg/m <sup>3</sup>		
	NIOSH (United States, 0/1994). Notes: Respirable.		
	TWA: 2 mg/m <sup>3</sup>		
	STEL: 4 mg/m <sup>3</sup>		
Lead	NIOSH (REL): 0.050 mg/m <sup>3</sup> (TWA).		
	100 mg/m <sup>3</sup> (IDLH).		
	ACGIH (TLV): 0.05 mg/m <sup>3</sup> (TWA).		



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	<b>OSHA (PEL):</b> 50 μg/m <sup>3</sup> (TWA).		
	30 μg/m <sup>3</sup> (Action Level, See 29 CFR 1910.1025)		
Antimony	ACGIH TLV (United States, 3/2012). Notes: As Sb.		
	TWA: 0.5 mg / m3 (as Sb) 8 hour (s).		
	OSHA PEL (United States, 6/2010). Notes: As Sb.		
	TWA: 0.5 mg / m3 (as Sb) 8 hour (s).		
	OSHA PEL 1989 (United States, 3/1989). Notes: As Sb.		
	TWA: 0.5 mg / m3 (as Sb) 8 hour (s).		
	NIOSH REL (United States, 6/2009). Notes: The REL and PEL also applies to other		
	compounds of antimony (Sb).		
	TWA: 0.5 mg / m3 (as Sb) 10 hours (s).		
Rosin Activated	NIOSH REL (United States, 12/2001). Notes: Carcinogenic in the presence of		
	formaldehyde, acetaldehyde, or malonaldehyde. See Appendix C (Aldehydes)		
	See Appendix A - NIOSH Potential Occupational Carcinogen.		
	TWA: 0.1 mg/m <sup>3</sup> 10 hour(s). Form: All forms.		
	OSHA PEL 1989 (United States, 3/1989).		
	TWA: 0.1 mg/m <sup>3</sup> 8 hour(s). Form: All forms.		

Components	N° CAS - N° EINECS	PEL mg/m <sup>3</sup>	TLV-TWA mg/m <sup>3</sup>	TLV-STEL mg/m <sup>3</sup>
TIN 7440-31-5/231-141-8				
	(USA)	2	2	-
	(EU)	-	2	4
	(Canada)	-	2	4
	(Singapore)	2	-	-
LEAD	7439-92-1/231-100-4			
	(USA)	0.05	0.05	-
	(EU)	-	0.15	-
	(Canada)	-	0.05	-
	(Singapore)	0.15		-
	(Mexico)	-	0.15	-
	(China)	- /	0.05 (dust)	-
			0.03 (steam)	
ANTIMONY	7440-36-0/231-146-5			
	(USA)	0.5	0.5	-
	(EU)	0.5	-	-
	(Canada)	-	0.5	1.5
	(Mexico)	-	5	-
	(Singapore)	0.5	-	-
	(China)	-	0.5	-

EU = Occupational Exposure Limits of the European Union.

### Section 9.- Physical and chemical properties

General data		
Physical state:	Solid	
Shape:	Wire	
Color:	Gray	
Odor:	None	
Valor pH:	NAV	
Melting point:	NAV	
Boiling point:	NAV	
Flash point and method:	NAV	
Flammability (solid, gas):	NAV	
Flammable limits:	NAV	



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Vapor pressure:	NAV
Vapor density:	NAV
Specific gravity:	NAV
Density:	NAV
Autoignition temperature:	NAV
% Volatile:	1.5 G/L
Evaporation rate:	NAV
Dispersibility properties:	NAV
Solubility:	Partially soluble in the following materials: NAV
	Slightly soluble in the following materials: NAV
	Insoluble in the following materials: water.

### Section 10.- Stability and reactivity

Stability and reactivity	The product is stable.		
Incompatibility with various	Reactive or incompatible with the following materials: oxidizing agents,		
Substances	reducing agents, acids, alkalis, chlorine, peroxides.		
Hazardous decomposition	Under normal conditions of storage and use, should not produce		
Products	hazardous decomposition products.		
	May produce metal oxide and toxic gases.		
Hazardous polymerization	Under normal conditions of storage and use, hazardous polymerization will		
	not occur.		
Conditions of reactivity	NAV		

### Section 11.- Toxicological information

	Toxicity data				
Product name or Ingredient	Test	Result	Route	Species	
Tin	LD50	2000 mg/kg	oral	rat	
	LD50	2000 mg/kg	dermal	rabbit	
	LDLO	388 mg/kg	oral	duck	
Lead	LDLO	160 mg/kg	oral	pigeon	
Antimony	LD50	7000 mg/kg	oral	rat	
Rosin Activated	LD50	2.2 g/kg	oral	mouse	
	LD50	3 g/kg	oral	rat	

Chronic effects on humans	Classified None. By NIOSH [Tin]. Classified A3 (Proven for animals.) By ACGIH, 2B (Possible for humans.) By IARC [Lead]. Classified 2 (Reasonably anticipated to be human carcinogens.) By NTP [Lead]. Classified None. By NIOSH [Lead]. Classified 4 (Probably not for humans.) By IARC, None. Classified None. By NIOSH [Antimony]. By IARC [resin acids and rosin, hydrogenated]. Contains damage to the following organs: blood, kidneys, lungs, spleen, brain,
Other toxic effects on humans	digestive system, gastrointestinal tract, upper respiratory tract, skin and eyes. It is harmful to the central nervous system (CNS) and the reproductive system. Slightly hazardous by the following route of exposure: (irritant, sensitizer) skin contact, eye contact (irritant), of ingestion, of inhalation. Not corrosive to skin. Not
numans	absorbed through the skin.

Specific effects			
Carcinogenic effects	Contains material which may cause cancer. The risk of cancer depends on		
_	duration and level of exposure.		



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Mutagenic effects	This product, when used for soldering and similar applications, produces
	chemicals that cause birth defects.
Teratogenicity /	This product, when used for soldering and similar applications, produces
Reproductive toxicity	chemicals that cause reproductive harm.

### Section 12.- Ecological information

Environmental precautions	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Products of degradation	Products of degradation: carbon oxides (CO, CO2) and water. Metal oxides.
Toxicity of the products of Biodegradation	The products of degradation are more toxic than the product itself.

	Ecotoxicity data		
Product name or ingredient	Species	Period	Result
Lead	Daphnia magna (EC50)	48 hours	600 µg/L
	Daphnia magna, Ceriodaphnia dubia (LC50)	48 hours	0.074-0.656 mg/L
	Daphnia magna, Ceriodaphnia dubia (LC50)	48 hours	0.029-1.18 mg/L
	Daphnia magna, Ceriodaphnia dubia (LC50)	48 hours	0.026-3.12 mg/L
	Pseudokirchneriella subcapitatia, Chlorella kessierii (EC50)	72 hours	0.072-0.388 mg/L
	Pseudokirchneriella subcapitatia, Chlorella kessierii (EC50)	72 hours	0.026-0.080 mg/L
	Pseudokirchneriella subcapitatia, Chlorella kessierii (EC50)	72 hours	0.021-0.050 mg/L
	Pimephales promelas (LC50)	96 hours	0.298 mg/L
	Cyprinus carpio (LC50)	96 hours	0.44 mg/L
	Oncorhynchus mykiss (LC50)	96 hours	471 mg/L
	Oncorhynchus mykiss (LC50)	96 hours	542 mg/L
	Oncorhynchus mykiss (LC50)	96 hours	1.17 mg/L
	Oncorhynchus mykiss (LC50)	96 hours	1.32 mg/L
	Pimephales promelas,	96 hours	0.041 - 1.810 mg/L
	Oncorhynchus mykiss (LC50)		
	Pimephales promelas,	96 hours	0.052 - 3.60 mg/L
	Oncorhynchus mykiss (LC50)		
	Pimephales promelas,	96 hours	0.114-3.25 mg/L
	Oncorhynchus mykiss (LC50)		
	Gambusia affinis (LC50)	96 hours	56000 mg/L
Antimony	Cyprinodont variegates (LC50)	96 hours	6.2 - 8.3 mg/L
Rosin Activated	Daphnia magna (EC50)	48 hours	3.8 -5.4 mg/L
	Desmodesmus Subspicatus (EC50)	72 hours	400 mg/L

Environmental Impact Data: (percentage by weight)					
CFC:	HFC:	CI. Solv:	VOC:	HCFC	ODP
0	0	0	0	0	0

Section 13.- Disposal considerations



#### Omega® Tin-Lead-Antimony Solder with Rosin Activated

#### Waste disposal

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations (refer to section 7 and Section 8).

If hazardous under 40 CFR 261, subparts b and c, material must be treated or disposed in a facility meeting the requirements of 40 CFR 254 or 265. If non-hazardous, material should be disposed in a facility meeting the requirements of 40 CFR 257. These criteria apply E.U.A. To classify the type of material in Mexico should refer to the Official Mexican Standard NOM-052-SEMARNAT-2005.

**Resource Conservation and Recovery Act (RCRA). Status of Unused Material:** If discharged in unaltered form, material should be tested to determine if it must be classified as a hazardous waste for disposal purposes. Under specific circumstances, application can be made to the EPA administrator to have a particular waste designated non-hazardous.

Regulatory Information	ONU number	Proper shipping name	Class	PG*	Label	Additional information
DOT Classification	Not regulated	-	-		-	-
TDG Classification	Not regulated	-	-			-
ADR/RID Class	Not available	-	-		-	-
IMDG Class	Not regulated	-	-		-	-
IATA-DGR Class	Not regulated	-	-		-	-

#### Section 14.- Transport information

PG\*: Packing group.

Ground	Not regulated	
Air	Shipper must be trained and certified. Refer to IATA Dangerous Goods Regulations.	
	UN Number:	None.
	UN Pack Group:	NA.
	UN Class:	Non Hazardous.
	ICAO/IATA:	Non Hazardous.
	Shipping Name:	Non Hazardous.
Sea	Not regulated	

#### DOT (Department of Transportation).

Proper Shipping Name: Not regulated by DOT.

# United States HCS Classification Toxic material. Carcinogen.

Target organ effects.



	Omega® Tin-Lead-Antimony Solder with Rosin Activated
USA Federal regulations	TSCA 6 proposed risk management: Lead.
	TSCA 8(a) PAIR: Antimony.
	TSCA 8(a) IUR: Partial exemption.
	TSCA 8(b) inventory: Tin; Lead.
	TSCA 8(d) H and S data reporting: Antimony, October 4, 1992.
	TSCA 12 (b) annual export notification: Lead.
	United States inventory (TSCA 8b): Not determined.
	SARA 302/304/311/312 extremely hazardous substances: No products were
	found.
	SARA 302/304 emergency planning and notification: No products were found
	SARA 302/304/311/312 hazardous chemicals: Rosin; Tin; Lead; Antimony.
	SARA 311/312 MSDS distribution - chemical inventory - hazard identification
	Rosin: Immediate (acute) health hazard, Delayed (chronic) health hazard; Tin
	Immediate (acute) health hazard; Lead: Delayed (chronic) health; Antimony
	Immediate (acute) health hazard, Delayed (chronic) health hazard.
	Clean Water Act (CWA) 307: Antimony.
	Clean Water Act (CWA) 311: No products were found.
	Clean Air Act (CAA) 112 accidental release prevention: No products were
	found.
	Clean Air Act (CAA) 112 regulated flammable substances: No products were
	found.
	Clean Air Act (CAA) 112 regulated toxic substances: No products were found
	SARA (Superfund Amendments and Reauthorization Act of 1986, USA, 40 CFI
	372.4):
	Reportable ingredients: Lead CAS# 7439-92-1.
	TSCA (Toxic Substances Control Act of 1976, USA):
	All substances are TSCA listed or exempt from listing.
	CAA (Clean Air Act, USA):
	This product does not contain any class 1-ozone depletors.
	This product does not contain any class 1-ozone depletors.
	This product does not contain any chemicals listed as hazardous air pollutants
	California Proposition 65 (Chemicals known to cause cancer or reproductive
	toxicity, May 1, 1997 revision, USA):
	This product contains Lead a chemical known to the state to cause
	reproductive toxicity and cancer.
	EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45):
	This product contains the following chemicals subject to the reporting
	requirements of Section 313 of Title III of the SARA of 1986 and 40 CFR par
	372: Lead CAS # 7439-92-1.

SARA 313			
	Product name	CAS number	Concentration
Form R - Reporting requirements	Lead	7439-92-1	80 - 100
	Antimony	7440-36-0	1 - 5
Supplier notification	Lead	7439-92-1	80 - 100
	Antimony	7440-36-0	1 - 5

SARA 313 notifications must not be detached from the Material Safety Data Sheets (MSDS) and any copying and distribution shall include copying and distribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations of the USA	Connecticut Carcinogen Reporting: None of the components are listed.
	Connecticut Hazardous Material Survey: None of the components are
	listed.
	Florida Substances: Tin, Antimony, Lead, Rosin.
	Illinois Chemical Safety Act: None of the components are listed.



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	Illinois Toxic Substances Disclosure to Employee Act: None of the				
	components are listed.				
	Louisiana Reporting: None of the components are listed.				
	Louisiana Spill: None of the components are listed.				
	Massachusetts Spill: None of the components are listed.				
	Massachusetts RTK Hazardous Substances: Tin, Antimony, Lead.				
	Michigan Critical Material: Antimony, Lead.				
	Minnesota Hazardous Substances: Tin, Antimony, Lead, Rosin.				
	New Jersey Hazardous Substances: Antimony, Lead.				
	New Jersey Spill: Tin.				
	New Jersey Toxic Catastrophe Prevention Act: None of the components				
	are listed.				
	New Jersey RTK Hazardous Substances: Tin, Antimony, Lead.				
	New York Acutely Hazardous Substances: Lead, Antimony.				
	New York Toxic Chemical Release Reporting: None of the components				
	are listed.				
	Pennsylvania RTK Hazardous Substances: Tin, Antimony, Lead.				
	Rhode Island Hazardous Substances: Tin, Antimony, Lead.				

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

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Lead	Yes	Yes	15 μg/day (ingestion) 0.0005 μg/day (inhalation)	Yes

#### Section 16.- Other information

#### References:

- ACGIH, Threshold Limit Values, 1994-1995.
- IATA, Dangerous Goods Regulations, 37th edition (January 1, 1996).
- NFPA, Fire Protection Guide to Chemical Hazards, 11th edition.
- NIOSH, Pocket Guide to Chemical Hazards, revision June 1994.
- TSCA (Toxic Substance Control Act), Chemical Substance Inventory List, 1985.
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#### Section 17.- Additional information

This information of Safety Data Sheet is considered accurate but is not exhaustive and shall only be used as a guideline based on current knowledge of the chemical substance or mixture. Safety precautions suitable for the product must be applied.

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