



**INDIUM CORPORATION OF AMERICA®\EUROPE®\ASIA-PACIFIC®
INDIUM CORPORATION (SUZHOU)®
MATERIAL SAFETY DATA SHEET**

To better serve all of our customers Indium Corporation has generated one MSDS for this single product to be used within the United States as well as internationally. Some of the regulatory information contained within may not be applicable to the customer's individual state or country. See alloy table for product listing.

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: INDALLOY METAL MIX CONTAINING BISMUTH

MSDS Number: MSDS-IN 004

Revised Date: 14 NOVEMBER 2007

Product Use: METAL ALLOY CONSISTING OF BISMUTH MIXED WITH OTHER METAL ALLOYS

MANUFACTURER:

In America:

The Indium Corporation of America
1676 Lincoln Ave., Utica NY 13502
Information: (315) 853-4900

EMERGENCY PHONE:

CHEMTREC 24 hrs.
USA: 1 (800) 424-9300
Outside USA: 1 (703) 527-3887

In Europe:

Indium Corporation of Europe
7 Newmarket Ct.
Kingston, Milton Keynes, UK, MK 10 OAG
Information: +44 [0] 1908 580400

In China:

Indium Corporation (Suzhou) Co., Ltd.
No. 428 Xinglong Street
Suzhou Industrial Park
Suchun Industrial Square
Unit No. 14C
Jiangsu Province, China 215126
Information: 86-512-6283-4900

In Asia:

Asia-Pacific Operations-Singapore
29 Kian Teck Avenue
Singapore 628908
Information: +65 6268-8678

2. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% wt	CAS Registry #/EINECS	PEL mg/m ³	TLV-TWA mg/m ³	TLV-STEL mg/m ³
TIN	*	7440-31-5/231-141-8			
		(US)	2	2	-
		(EU)	-	2	4

		(Singapore)	2	-	-
		(Canada)	-	2	4
LEAD	*	7439-92-1/231-100-4			
		(US)	0.05	0.05	-
		(EU)	-	0.15	-
		(Canada)	-	0.05	-
		(Singapore)	0.15	-	-
		(Mexico)	-	0.15	-
		(China)	-	0.05(dust) 0.03(fume)	-
SILVER	*	7440-22-4/231-131-3			
		(US)	0.01	0.1	-
		(EU)	-	0.1	-
		(Canada)	-	0.1	0.3
		(Singapore)	0.1	-	-
		(Mexico)	-	0.1	-
INDIUM	*	7440-74-6/231-180-0			
		(US)	0.1	0.1	-
		(EU)	-	0.1	0.3
		(Canada)	-	0.1	0.3
		(Singapore)	0.1	-	-
		(Mexico)	-	0.1	0.3
		(China)	-	0.1	0.3
COPPER	*	7440-50-8/231-159-6			
		(US)	0.1 (fume)	0.2 (fume)	-
		(EU)	-	0.2 (fume)	-
		(Singapore)	0.2(fume)	1(dust)	-
		(Mexico)	-	0.2	2
		(Canada)	N.E.	0.2 (fume)	0.6 (fume)
BISMUTH	*	7440-69-9/231-177-4	N.E.	N.E.	N.E.
ANTIMONY	*	7440-36-0/231-146-5			
		(US)	0.5	0.5	-
		(EU)	0.5	-	-

		(Singapore)	0.5	-	-
		(Mexico)	-	0.5	-
		(China)	-	0.5	-
		(Canada)	-	0.5	1.5
ZINC	*	7440-66-6/231-175-3	N.E.	N.E.	N.E.
CADMIUM	*	7440-43-9/231-152-8			
		(US)	0.005	0.01	-
		(EU)	0.025	-	-
		(Singapore)	0.05	-	-
		(China)	-	0.01	0.02
		(Canada)	-	0.05	0.2
GERMANIUM	*	7440-56-4/231-164-3	N.E.	N.E.	N.E.

Symbol: X_n

Risk Phrases: R20/21/22, R36/37/38

N.E. = Not established

EU = European Union Occupational Exposure Limits

*See Alloy Table

3. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY:

 Eye Inhalation Skin Ingestion

CARCINOGEN LISTED IN:

 NTP IARC OSHA Not Listed
(See Section 11)

POTENTIAL HEALTH EFFECTS:

Eye Contact: Contact with powered metal alloy or fume from molten metal may cause irritation. Severe eye damage may result from hot molten metal being splashed into the eyes. Wear safety glasses and face shield when working with molten metal. Dusts are irritating to eyes.

Ingestion: Ingestion of dust may cause headache, nausea, abdominal pain, fatigue and pain in the legs, arms and joints. May be harmful.

Inhalation: Inhalation of fume or dust may cause local irritation to the respiratory system. Inhalation of fume or dust may cause headache, nausea, abdominal pain, fatigue and pain in the legs, arms and joints. Inhalation of cadmium fume can cause metal fume fever.

Skin Contact: Normal handling should not cause any adverse health effects. May cause skin irritation. Hot molten metal may cause burns to the skin. Wear protective equipment when handling molten metal. Antimony has been known to cause dermatitis.

Chronic: TIN: Has been shown to increase incidence of sarcoma in animal tests. Chronic exposure may result in "stannosis" a mild form of pneumoconiosis.

LEAD: Prolonged exposure to vapors or fumes at higher temperatures may cause respiratory irritation and systematic lead poisoning. Symptoms of lead poisoning include headache, nausea, abdominal pain, muscle and joint pain and damage to the nervous system, blood system and kidneys.

SILVER: Chronic skin contact or ingestion of silver dust, salts or fume can result in a condition

known as Argyria, a condition with bluish pigmentation of the skin and eyes.

INDIUM: May cause damage to respiratory system if inhaled over long exposure.

BISMUTH: May cause kidney damage.

COPPER: Overexposure to fumes may cause metal fume fever (chills, muscle aches, nausea, fever, dry throat, cough weakness, lassitude); metallic or sweet taste; discoloration of skin and hair.

CADMIUM: Overexposure can cause damage to the lungs and kidneys. Cadmium is a toxic metal and ingestion or inhalation of fumes and dust can be harmful. Included effects may be obstructive lung disease such as emphysema, bone demineralization, microfractures and osteomalacia, gastrointestinal symptoms, rhinitis and discoloration of the teeth.

WARNING: This product contains a chemical(s) known to the State of California to cause cancer and/or birth defects (or other reproductive harm).

NOTE: The Indium Corporation does not recommend, manufacturer, market or endorse any of its products for human consumption.

WARNING: This product may contain lead. Lead may be harmful to your health. Federal law prohibits the use of leaded solders in making joints or fittings in any private or public water supply system. Keep out of the reach of children.

4. FIRST AID MEASURES

- Eye Contact:** Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
- Ingestion:** If patient is conscious, ONLY induce vomiting as directed by trained personnel. NEVER give anything by mouth to an unconscious person. Seek medical attention immediately.
- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel. Seek immediate medical attention.
- Skin Contact:** Remove contaminated clothing. Wash affected area with soap and water. Wash clothing before reuse. If irritation persists, obtain medical attention.

5. FIRE FIGHTING MEASURES

- Flash Point:** Not established. **Method:** Not established.
- Auto-ignition Temperature:** Not established.
- Flammable Limits:** Limits not established. Massive metal is not flammable; however dust or powder may be flammable.
- Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions. Do not add water to molten metal.
- Special Fire Fighting Procedures:** Firefighters must wear NIOSH approved self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

- Spill or Leak Procedures:** Contain spill. If molten, cool to allow metal to solidify. If a solid metal, wear gloves, pick up and return to process. If dust, wear recommended personal protective equipment including respiratory protection. DO NOT SWEEP. Use a vacuum, place in barrels and

return to process if applicable. Use proper ventilation.
Otherwise, dispose of following all Federal, State and Local regulations. In the EU refer to the Special Waste Regulations. Metal may have reclaim value.

7. HANDLING AND STORAGE

- Handling Precautions:** Only dry metals should be added to molten bath. If working with molten metals, or exposed to fume or dust, use appropriate personal protective equipment.
- Storage Precautions:** Store product in a cool, dry area away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering Controls:** Local exhaust ventilation is recommended to control any air contaminants. Control concentration of all components so that their exposure levels are not exceeded. Use ventilation.
- Personal protection:**
- Eyes:** Chemical safety glasses/goggles and face shield with molten metal. Safety glasses.
- Respirator:** A NIOSH approved or EU compliant CE marked air-purifying respirator with a fume/dust chemical cartridge is recommended under certain circumstances where airborne concentrations are expected to be elevated. Additional respiratory protection may be required based on the work performed and the area in which the work is performed. Lead work requires protection from exposure.
- Skin:** Gloves-leather or impervious (vinyl) type. Heat resistant gloves if handling hot metal. Safety type boots. Personal protective equipment is recommended when working with molten metal to avoid burns.
- Other:** Lab coat, safety shower and eye-wash fountain in work area. Avoid the use of contact lenses in high fume areas.
- Work/Hygienic Practices:** Maintain good housekeeping. Clean up spills immediately. Good personal hygiene is essential. Avoid eating, smoking or drinking in the work area. Wash hands thoroughly with soap and water immediately upon leaving the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | | | |
|--------------------------|-------------------------|-----------------------------|-----------------|
| Appearance: | Silver grey solid metal | Boiling Point: | Not applicable. |
| Odor: | Odorless | Melting Point: | See Table |
| Specific Gravity: | See Table | Ph: | Not applicable |
| Vapor Pressure: | Not applicable. | Solubility in Water: | Insoluble |
| Vapor Density: | (air=1) Not applicable. | | |

10. STABILITY AND REACTIVITY

- General:** Stable.
- Conditions to Avoid:** Not established.
- Incompatible Materials:** Avoid contact with mineral acids.
- Hazardous Decomposition /** Harmful organic fumes and toxic oxide fumes may form at elevated

Combustion: temperatures.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity: National Toxicity Program (NTP): Yes
Cadmium is listed as a possible carcinogen.

Occupational Safety & Health Administration (OSHA): Yes
Cadmium is listed as a possible carcinogen.

U.N. International Agency for Research on Cancer (IARC): Yes
Lead and Lead compounds are listed as possible carcinogens.
Cadmium is listed as possible carcinogen.

LD50: Not established **LC50:** Not established

Other: Chronic Toxicity: Lead and Cadmium can cause potential harm to the developing fetus.

12. ECOLOGICAL INFORMATION

This section is subject to future development.
Product not tested.

13. DISPOSAL CONSIDERATION

Waste Disposal Method: Scrap metal alloy usually has value. Contact a commercial reclaimer for recycling. Otherwise, dispose of in accordance with all Federal, State and Local environmental regulations.

14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements. Not regulated under US DOT (United States Department of Transportation). Not hazardous under shipping regulations.

15. REGULATORY INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated hereunder (29 CFR 1910.1200 ET. SEQ.).

The information in this Material Safety Data Sheet meets the requirements of the EU under Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (CHIP 2) Regulation 6.

This product has been classified in accordance with the hazard criteria of the Commission Directive 91/155/EEC and EH40.

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR).

WHMIS: D2A – Materials Causing Other Toxic Effects – Very Toxic Material (Chronic), otherwise not classified.

This product has been classified in accordance with the guidelines set by the Dept of Industrial Health of the Republic of Singapore.

This product has been classified using the Chinese Occupational Exposure Limit for Hazardous Agents in the Workplace, GBZ2-2002.

This product has been classified in accordance with Mexican regulations NOM-018-STPS-2000 and NOM-010-STPS-1999.

California PROP 65 (Safe Drinking Water Standard): WARNING : This product contains a chemical(s) known to the State of California to cause cancer and/or birth defects (or other reproductive harm).

SARA 313 Listing – 40 CFR 372.65: Lead CAS# 7439-92-1, Silver CAS# 7440-22-4, Cadmium CAS# 7440-43-9
Copper CAS# 7440-50-8, Antimony CAS# 7440-36-0, Zinc CAS# 7440-66-6

All ingredients are listed on the EPA TSCA Inventory.

All ingredients are listed on the Canadian Domestic Substance List.

EPA Genetic Toxicology Program – Lead CAS# 7439-92-1, Cadmium CAS# 7440-43-9

EC Classification, Packaging and Labeling Requirements:

Symbol and Hazard Classification of Product

X_n

Risk Phrases:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R36/37/38 Irritating to eyes, respiratory system and skin

Safety Phrases:

S20/21 When using do not eat, drink or smoke

S22 Do not breathe dust

S23 Do not breathe fumes

S24/25 Avoid contact with skin and eyes

S27 Take off immediately all contaminated clothing

S28 After contact with skin wash immediately with plenty of soap and water

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

S62 If swallowed, do not induce vomiting seek medical advice immediately and show container or label

16. OTHER INFORMATION

HMIS Hazard Rating:	Health:	2
	Fire:	1
	Reactivity:	0

Revised Date: 14 NOVEMBER 2007

Prepared by: Nancy Swarts, Indium Corporation of America

Approved by: Nancy Swarts, Indium Corporation of America

The information and recommendations contained herein are, to the best of The Indium Corporation of America's knowledge and belief, accurate and reliable as of the date issued. The Indium Corporation of America does not warrant or guarantee their accuracy or reliability, and The Indium Corporation of America shall not be liable for any loss or damage arising out of the user thereof. The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal counsel should be consulted to insure proper health, safety and other necessary information is included on the container. The Indium Corporation does not recommend, manufacture, market or endorse any of its products for human consumption.

ALLOY TABLE

INDALLOY (Metal)	%BISMUTH Bi	%TIN Sn	%LEAD Pb	%CADMIUM Cd	%SILVER Ag	%INDIUM In	%ANTIMONY Sb	%COPPER Cu	%ZINC Zn	Germanium Ge	LIQUIDUS °C/°F	RoHS* Compliance	DENSITY (gm/cm ³)
16	44.7	11.3	22.6	5.3	-	16.1	-	-	-	-	52/126	No	9.16
17	49.14	11.55	17.92	0.5	-	20.89	-	-	-	-	56/133	No	9.01
18	30.78	-	-	7.5	-	61.72	-	-	-	-	61.5/143	No	8.02
19	32.5	16.5	-	-	-	51	-	-	-	-	60/140	Yes	7.88
21	49	15	18	-	-	18	-	-	-	-	69/156	No	9.00
22	50.5	12.4	27.8	9.3	-	-	-	-	-	-	73/163	No	9.67
23	50	12.5	25	12.5	-	-	-	-	-	-	73/163	No	9.6
24	50	12.5	24.95	12.5	0.05	-	-	-	-	-	73/163	No	9.59
25	48.5	-	-	10	-	41.5	-	-	-	-	77.5/172	No	8.49
26	50	9.3	34.5	6.2	-	-	-	-	-	-	78/172	No	9.89
27	54.02	16.3				29.68	-	-	-	-	81/178	Yes	8.47
28	50	3	39	8	-	-	-	-	-	-	82/180	No	10.13
29	50.31	1	39.2	8	-	1.49	-	-	-	-	85/185	No	10.15
31	50.31	1.5	39.2	7.99	-	1	-	-	-	-	89/192	No	10.15
32	50.9	15	31.1	1	-	2	-	-	-	-	89/192	No	9.63
33	51.08	-	39.8	8.12	-	1	-	-	-	-	91/196	No	10.21
34	52	15.33	31.67	1	-	-	-	-	-	-	92/198	No	9.7
35	50	4	39	7	-	-	-	-	-	--	93/199	No	10.11
36	51.45	15.2	31.35	-	-	2	-	-	-	-	93/199	No	9.64
37	52	15.3	31.7	-	-	1	-	-	-	-	94/201	No	9.70
38	52.5	15.5	32	-	-	-	-	-	-	-	95/203	No	9.71
39	52	18	30	-	-	-	-	-	-	-	96/205	No	9.60
40	50	19	31	-	-	-	-	-	-	-	99/210	No	9.53
41	50	22	28	-	-	-	-	-	-	-	100/212	No	9.44

INDALLOY (Metal)	%BISMUTH Bi	%TIN Sn	%LEAD Pb	%CADMIUM Cd	%SILVER Ag	%INDIUM In	%ANTIMONY Sb	%COPPER Cu	%ZINC Zn	Germanium Ge	LIQUIDUS C/F	RoHS* Compliance	DENSITY (gm/cm ³)
42	46	34	20	-	-	-	-	-	-	-	96/205	No	8.99
43	40.5	22.4	27.8	9.3	-	-	-	-	-	-	102/216	No	9.32
44	50	25	25	-	-	-	-	-	-	-	115/239	No	9.32
45	54	26	-	20	-	-	-	-	-	-	103/217	No	8.78
46	56	22	22	-	-	-	-	-	-	-	104/219	No	9.37
47	35.3	20.1	35.1	9.5	-	-	-	-	-	-	105/221	No	9.48
48	52.2	10	37.8	-	-	-	-	-	-	-	105/221	No	9.97
49	45	20	35	-	-	-	-	-	-	-	107/225	No	9.60
50	46	20	34	-	-	-	-	-	-	-	108/226	No	9.59
52	54.5	6	39.5	-	-	-	-	-	-	-	108/226	No	10.14
53	67	-	-	-	-	33	-	-	-	-	109/228	Yes	8.81
54	51.6	7	41.4	-	-	-	-	-	-	-	112/234	No	10.13
55	40	13.3	33.4	13.3	-	-	-	-	-	-	113/235	No	9.63
56	54.4	1	43.6	1	-	-	-	-	-	-	113/235	No	10.38
57	50	20	30	-	-	-	-	-	-	-	104/219	No	9.53
58	52.98	4.53	42.49	-	-	-	-	-	-	-	117/243	No	10.24
59	38.14	31.67	26.42	2.64	-	-	1.07	0.06	-	-	118/244	No	9.06
61	53.75	3.15	43.1	-	-	-	-	-	-	-	119/246	No	10.30
62	55	1	44	-	-	-	-	-	-	-	120/248	No	10.39
63	56.85	-	41.15	2	-	-	-	-	-	-	121/250	No	10.36
64	55	-	44	-	-	1	-	-	-	-	121/250	No	10.39
65	30.7	18.2	46	5.1	-	-	-	-	-	-	123/253	No	9.74
67	58	-	42	-	-	-	-	-	-	-	126/259	No	10.40
68	37	25	38	-	-	-	-	-	-	-	127/261	No	9.48
72	32	34	34	-	-	-	-	-	-	-	133/271	No	9.15

INDALLOY (Metal)	%BISMUTH Bi	%TIN Sn	%LEAD Pb	%CADMIUM Cd	%SILVER Ag	%INDIUM In	%ANTIMONY Sb	%COPPER Cu	%ZINC Zn	Germanium Ge	LIQUIDUS C/F	RoHS* Compliance	DENSITY (gm/cm ³)
73	56.84	41.16	2	-	-	-	-	-	-	-	133/271	No	8.60
74	38.41	30.77	30.77	-	0.05	-	-	-	-	-	135/275	No	9.21
75	57.42	41.58	1	-	-	-	-	-	-	-	135/275	No	8.58
76	36	31	32	-	1	-	-	-	-	-	136/277	No	9.22
78	36.45	31.5	31.75	0.25	0.05	-	-	-	-	-	136/277	No	9.20
79	55.1	39.9	5	-	-	-	-	-	-	-	136/277	No	8.67
80	36.5	31.75	31.75	-	-	-	-	-	-	-	137/279	No	9.19
81	28.5	28.5	43	-	-	-	-	-	-	-	137/279	No	9.43
83	30.8	30.8	38.4	-	-	-	-	-	-	-	139/282	No	9.30
84	5	45	32	18	-	-	-	-	-	-	139/282	No	8.63
85	33.33	33.33	33.34	-	-	-	-	-	-	-	143/289	No	9.16
86	60	-	-	40	-	-	-	-	-	-	144/291	No	9.31
89	21	37	42	-	-	-	-	-	-	-	152/306	No	9.16
93	45.45	-	54.55	-	-	-	-	-	-	-	160/320	No	10.59
95	16	48	36	-	-	-	-	-	-	-	162/324	No	8.78
97	14	43	43	-	-	-	-	-	-	-	163/325	No	9.02
98	10	50	40	-	-	-	-	-	-	-	167/333	No	8.77
99	21.5	27	51.5	-	-	-	-	-	-	-	170/338	No	9.58
101	20	30	50	-	-	-	-	-	-	-	173/343	No	9.47
102	12.6	39.93	47.47	-	-	-	-	-	-	-	176/349	No	9.13
105	25.5	60	14.5	-	-	-	-	-	-	-	180/356	No	8.25
111	4	40.5	55.5	-	-	-	-	-	-	-	197/387	No	9.21
117	44.7	8.3	22.6	5.3	-	19.1	-	-	-	-	47/117	No	9.16
136	49	12	18	-	-	21	-	-	-	-	58/136	No	9.01
139	95	5	-	-	-	-	-	-	-	-	251/484	Yes	9.64

INDALLOY (Metal)	%BISMUTH Bi	%TIN Sn	%LEAD Pb	%CADMIUM Cd	%SILVER Ag	%INDIUM In	%ANTIMONY Sb	%COPPER Cu	%ZINC Zn	Germanium Ge	LIQUIDUS C/F	RoHS* Compliance	DENSITY (gm/cm ³)
140	47.5	12.5	25.4	9.5	-	5	-	-	-	-	65/149	No	9.47
147	48	12.77	25.63	9.6	-	4	-	-	-	-	65/149	No	9.50
148	100	-	-	-	-	-	-	-	-	-	271/520	Yes	9.80
158	50	13.3	26.7	10	-	-	-	-	-	-	70/158	No	9.58
162	33.7	-	-	-	-	66.3	-	-	-	-	72/162	Yes	7.99
174	57	17	-	-	-	26	-	-	-	-	79/174	Yes	8.54
197	51.6	-	40.2	8.2	-	-	-	-	-	-	92/198	No	10.25
203	5	-	-	-	-	95	-	-	-	-	150/302	Yes	7.40
231	3.5	86.5	-	-	-	4.5	-	-	5.5	-	186/367	Yes	7.36
234	8	49.75	41.75	-	0.5	-	-	-	-	-	172/342	No	8.82
240	8	46	46	-	-	-	-	-	-	-	173/343	No	8.97
249	4.8	91.8	-	-	3.4	-	-	-	-	-	213/415	Yes	7.44
255	55.5	-	44.5	-	-	-	-	-	-	-	124/255	No	10.44
257	52	16	32	-	-	-	-	-	-	-	95.5/204	No	9.69
281	58	42	-	-	-	-	-	-	-	-	138/281	Yes	8.56
282	57	42	-	-	1	-	-	-	-	-	140/284	Yes	8.57
160-190	42.5	11.3	37.7	8.5	-	-	-	-	-	-	88/190	No	9.81
217-440	48	14.5	28.5	-	-	-	9	-	-	-	227/441	No	9.30
281-338	40	60	-	-	-	-	-	-	-	-	-	Yes	9.24
INDALLOY (Metal)	%BISMUTH Bi	%TIN Sn	%LEAD Pb	%CADMIUM Cd	%SILVER Ag	%INDIUM In	%ANTIMONY Sb	%COPPER Cu	%ZINC Zn	Germanium Ge	LIQUIDUS C/F	RoHS* Compliance	DENSITY (gm/cm ³)
NS	1	99	-	-	-	-	-	-	-	-	-	Yes	7.3
NS	2.5	62	32.5	-	-	-	1	1	1	-	-	No	8.31
NS	10	25	62	-	3	-	-	-	--	-	-	No	9.80
NS	28.6	31.4	39.4	-	0.6	-	-	-	-	-	-	No	9.29
NS	31.5	65.5	-	-	-	-	-	-	3.0	-	-	Yes	7.92

NS	35	65	-	-	-	-	-	-	-	-	-	Yes	8.00
NS	35	50	15	-	-	-	-	-	-	-	-	No	8.50
NS	40	-	60	-	-	-	-	-	-	-	-	No	10.67
NS	48	20	19	13	-	-	-	-	-	-	170/338	No	8.12
NS	50	50	-	-	-	-	-	-	-	-	-	Yes	8.35
NS	56.5	40	-	-	-	-	3.5	-	-	-	-	Yes	8.48
NS	60.5	-	-	-	-	39.5	-	-	-	-	-	Yes	8.63
NS	70	20	-	-	10	-	-	-	-	-	-	Yes	9.22
NS	89	-	-	-	11	-	-	-	-	500 ppm	-	Yes	7.53
NS	95	-	-	-	5	-	-	-	-	-	-	Yes	9.83

NS = Non Standard Alloy Mix

*RoHS = Restriction of Hazardous Substances (review any applicable exemptions that may apply)
European Standard Directive 2002/95/EC

<http://www.pbfree.com>

<http://www.indium.com>

http://www.europa.eu.int/conn/environment/waste/weee_index.tm