



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier: INDALLOY WITH NC-7 FLUX COATING

SDS Number: SDS-CP 4061

Revised Date: 17 APRIL 2020

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product Use: Industrial Use (Mixture) – Flux Coated Metal Perform for industrial applications. Review alloy table for exact product identification. Note: this SDS covers various metal mixtures.

See alloy table at end of document for listing of products included under this SDS.

1.3 Details of the supplier of the safety data sheet

MANUFACTURER/SUPPLIER/IMPORTER:

In America:

The Indium Corporation of America®
34 Robinson Rd., Clinton, New York 13323
Technical & Safety Information: (315) 853-4900
Safety & SDS Information: nswarts@indium.com
Corporation web page: <http://www.indium.com>

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In China:

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No. 428 Xinglong Street
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Information: (86) 512-6283-4900

In Asia:

Indium Corporation of America®

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

1.4 EMERGENCY TELEPHONE NUMBER

FOR CHEMICAL EMERGENCY ONLY PHONE *:

CHEMTREC 24 hrs.

USA: 1 (800) 424-9300

Outside USA: +1 (703) 527-3887

*** Used only for spill/leak/fire/exposure/accident**

ALL OTHER INQUIRIES: TOLL FREE: +1-800-448-9240 Indium Corporation

2. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY:

Eye

Inhalation

Skin

Ingestion

NTP

Carcinogen listed in

IARC

OSHA

Not Listed

2.1 Classification: Mixture

Classification:

Skin sensitization-Category 1B

Respiratory sensitization- Category 1B

Acute toxicity, oral- Category 5

Carcinogenicity- Category 2

Reproductive toxicity-Category 2

Specific target organ, repeated exposure- Category 2

Hazardous to aquatic environment, long-term hazard- Category 1

2.2 Label elements :

Labeling according to Regulation (EC) no. 1272/2008

Lead free



Signal Word: Warning

Hazard statement(s)

H317 May cause an allergic skin reaction

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statement(s)

P233 Keep container tightly closed

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

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

P273 Avoid release to the environment

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

P301 + P314 IF SWALLOWED: Get Medical advice/attention if you feel unwell

P302 +P352 IF ON SKIN: Wash with plenty of soap and water
 P304 + 341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
 P305 + 351 IF IN EYES: Rinse continuously with water for several minutes (15 mins)

Lead containing



Signal Word: Warning

Hazard statement(s)

H302 Harmful if swallowed
 H317 May cause an allergic skin reaction
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
 H351 Suspected of causing cancer
 H361 Suspected of damaging fertility or the unborn child
 H373 May cause damage to organs (blood/kidneys/CNS) through prolonged or repeated exposure
 H410 Very toxic to aquatic life with long lasting effects
 EUH208 Contains rosin. May produce an allergic reaction

Precautionary statement(s)

P233 Keep container tightly closed
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray
 P270 Do not eat, drink or smoke when using this product
 P273 Avoid release to the environment
 P280 Wear protective gloves/protective clothing/eye protection/face protection
 P301 + P314 IF SWALLOWED: Get Medical advice/attention if you feel unwell
 P302 +P352 IF ON SKIN: Wash with plenty of soap and water
 P304 + 341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
 P305 + 351 IF IN EYES: Rinse continuously with water for several minutes (15 mins)

Supplemental Information:

EUH208 Contains rosin. May produce an allergic reaction
 EUH201A Warning! Contains lead Review alloy listing.

2.3 OTHER HAZARDS:

POTENTIAL HEALTH EFFECTS:

Eye Contact: Contact with powdered 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.

Ingestion: This product may contain lead alloy powder harmful if swallowed. Organic chemicals may cause irritation.

Inhalation: Inhalation of fume or dust may cause local irritation to the respiratory system. Rosin may cause occupational asthma. Product may contain lead which may cause harm if inhaled.

Skin Contact: Normal handling of solid metal should not cause any adverse health effects. Hot molten metal may cause burns to the skin. Wear protective equipment when handling molten metal. Protect skin when grinding/cutting, may cause irritation. Antimony may cause irritation.

Chronic:

TIN: Overexposure may cause metal fume fever.

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. Signs and symptoms of exposure – anemia.

BISMUTH: May cause kidney damage

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.

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. Tissue damage of mucous membranes may follow chronic dust exposure

INDIUM: May cause damage to respiratory system if inhaled over long periods of time.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixture:

Components	% wt	CAS Registry #/ EINECS#	
TIN	0 - 96	7440-31-5/231-141-8	no hazard statement
LEAD	0 - 97	7439-92-1/231-100-4	H302/351/361/373/410
BISMUTH	0 – 57.7	7440-69-9/231-177-4	no hazard statement
SILVER	0 - 10	7440-22-4/231-131-3	no hazard statement
COPPER	0 – 0.69	7440-50-8/231-159-6	no hazard statement
INDIUM	0 – 99.5	7440-74-6/231-180-0	H355
GOLD	0 – 79.6	7440-57-5/231-165-9	no hazard statement
ANTIMONY	0 – 4.9	7440-36-0/231-146-5	no hazard statement
ROSIN MIX	0.5 - 5	65997-05-9	H317/319/334

* See Alloy Table at the end of the document for breakdown of percentages of alloy mixtures

4. FIRST AID MEASURES

4.1 Description of first aid measures:

Eye Contact: Hold eyelids apart and flush eyes with plenty of tepid 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.

4.2 Most important symptoms and effect, both acute and delayed:

Exposure to metal fumes may cause irritation to the respiratory system. Long term exposure by inhalation to metal fumes may cause illness such as metal fume fever. Exposure to lead fume may cause harm. Sign of overexposure is anemia. Rosin fume may cause respiratory irritation. May cause occupational asthma.

4.3 Indication of any immediate medical attention and special treatment needed:

No specific special treatment information is available on this mixture. Review data provided in this document to understand the hazards when working with the product. No other information is available at this time.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media: Use extinguishers appropriate for the surrounding fire conditions. Water, CO2, foam media.

5.2 Special hazards arising from the substance or mixture:
May produce toxic fumes of carbon monoxide if burning or metal oxide fumes.

5.3 Advice for Firefighters Fire fighters must wear approved self-contained breathing apparatus and full protective clothing.

Material product is not flammable. Metal dust in air could pose a flammable issue. No other information is available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Keep away from the spill. Remove sources of ignition. Keep exhaust ventilation system running. In the event of a fire evacuate area.

For emergency responders:

Wear safety glasses, gloves when cleaning up any spill. Other equipment may be necessary based on the immediate area and other chemicals unrelated to the product that may be in use. Adequate ventilation should be available. Keep unnecessary personnel away from area during clean up. Solid metal can easily be cleaned up. Do not sweep. Vacuum solids and avoid creating dust in air.

6.2 Environmental Precautions: Metals are not generally suited for release to any body of water including drains. Avoid

release to environment.

6.3 Methods and material for containment and cleaning up:

Spill or leak procedures: Solid metal can be picked up and placed into metal container. If hot allow to cool then place into metal container. Recycle metal.

6.4 Reference to other sections: See Section 8 for exposure levels.

7. HANDLING AND STORAGE

7.1 Precautions Keep containers tightly closed when not in use. Use care to avoid spills. Wear appropriate personal protective equipment when working or handling product. Always thoroughly wash your hands after handling this product. DO NOT touch or rub eyes until hands are washed. Do not eat, drink or smoke when handling this product. Utilize exhaust ventilation when heating product. Emissions contain metal fumes.

7.2 Conditions for Safe Storage, including any incompatibilities:

Storage Precautions: Store product in tightly capped original containers in a cool, dry area. Refer to product label and product data sheet for specific storage temperature requirements. Rotate stock to ensure use before expiration date.

7.3 Specific End Use(s): Soldering applications and other applications.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters:

			<u>TWA</u>	<u>STEL</u>
		<u>CAS#/EINECS#</u>	mg/m3	mg/m3
TIN	0 - 96	7440-31-5/231-141-8		
		(UK)	2	4
		(Belgium)	2	-
		(Germany)	2	-
		(Netherlands)	2	-
		(Spain)	2	-
		(Poland)	2	-
LEAD	0 - 97	7439-92-1/231-100-4		
		(UK)	0.15	-
		(France)	0.1	-
		(Spain)	0.15	-
		(Italy)	0.15	-
		(Portugal)	0.05	-
		(Finland)	0.1	-

			(Denmark)	0.05	-
			(Austria)	0.1	0.4
			(Switzerland)	0.1	0.8
			(Poland)	0.05	-
			(Norway)	0.05	-
			(Ireland)	0.15	-
SILVER	0 - 10	7440-22-4/231-131-3			
			(UK)	0.1	0.3
			(Belgium)	0.1	-
			(France)	0.1	-
			(Germany)	0.1	-
			(Netherlands)	0.1	-
			(Spain)	0.1	-
			(Poland)	0.05	-
INDIUM	0 – 99.5	7440-74-6/231-180-0			
			(UK)	0.1	0.3
			(Belgium)	0.1	-
			(Spain)	0.1	-
			(Portugal)	0.1	-
			(Finland)	0.1	-
			(Denmark)	0.1	-
			(Austria)	0.1	0.2
			(Switzerland)	0.1	-
			(Norway)	0.1	-
			(Ireland)	0.1	0.3
BISMUTH	0 – 57.7	7440-69-9/231-177-4			
			(UK)	N.E.	N.E.
ANTIMONY	0 – 4.9	7440-36-0/231-146-5			
			(UK)	0.5	-
			(France)	0.5	-
			(Belgium)	0.5	-
			(Spain)	0.5	-

			(Portugal)	0.5	-
			(The Netherlands)	0.5	-
			(Finland)	0.5	-
			(Denmark)	0.5	-
			(Austria)	0.5	5
			(Switzerland)	0.5	-
			(Poland)	0.5	-
			(Norway)	0.5	-
			(Ireland)	0.5	-
COPPER	0 – 0.69	7440-50-8 /231-159-6			
			(UK)	0.2 (fume)	-
			(France)	2	0.2(fume)
			(Belgium)	1	-
				0.2(fume)	
			(Spain)	1	-
				0.2(fume)	
			(Portugal)	1	0.2(fume)
			(Netherlands)	0.1	-
			(Finland)	1	-
				0.1	
			(Denmark)	1	-
				0.1	
			(Austria)	1	4
				0.1(fume)	0.4
			(Switzerland)	0.1	0.2
			(Norway)	1	0.1
			(Ireland)	1	2
				0.2 (fume)	
			(Poland)	0.2	-
GOLD	0 – 79.6	7440-57-5/231-165-9		N.E.	-
ROSIN MIX	0.5 - 5	65997-05-9			
			(EU)	0.05	N.E.
					0.15 (sensitiser)

* See Alloy Table

N.E. = Not established

TWA= time weighted average- 8hr. STEL=short term exposure level- 15 minutes

8.2 Exposure Controls:

Engineering Controls: Use with proper equipment with adequate exhaust ventilation and other safety features specifically designed for use with solder applications or other industrial uses. Control concentration of all components with established exposure limits so they are not exceeded. Use exhaust ventilation when heating product. Air emission control equipment may be necessary based on the local governmental requirements for contaminants entering the atmosphere. Emissions contain metal fumes.

Personal protection:

Follow requirements for proper equipment as outlined under 2016/425.

Eye/face protection:

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection:

Handle with CEN approved disposable nitrile gloves (minimum layer thickness: 5 mil), EN 374 Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Use EN 407 approved thermal (hot) gloves for any handling of molten metal.

Body Protection:

The type of protective equipment must be selected according to the concentration and amount of any other substances used at the specific workplace. Handling of flux coated parts requires the use of gloves, eye protection and may require additional protection such as lab coat.

Respiratory protection:

Where risk assessment shows respirators are appropriate use a particle respirator type P100 (US) or half face respirator with multi-gas cartridges or type P3 (EN 143) respirator cartridges as a backup to engineering controls.

Work/Hygienic:

Maintain good housekeeping. Clean up spills immediately. Wash hands thoroughly with soap and water immediately upon leaving the work area and before eating. Refrain from eating or smoking in work areas. When applicable in US, review, OSHA lead worker requirements. Certain work practice and medical monitoring may be required.

Control of environmental exposure:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:	Solid metal	Boiling Point/Range:	Not determined-solid metal
Odor:	None - metal.	Melting Point/Freezing Point:	See technical bulletin
Odor Threshold:	Solid metal	Evaporation Rate:	Not applicable-solid metal
Specific Gravity:	See alloy table	pH:	Not applicable-solid metal
Vapour Pressure:	Not applicable.	Solubility in Water:	Insoluble
Vapour Density:	(air=1) Not applicable.	Partition coefficient:	Not established
Relative Density:	Not established	Flammability:	Not applicable-not flammable
Flash Point:	Not flammable-metal	Method:	Not applicable-not flammable
Auto-ignition Temperature:	Not applicable-metal	Flammable Limits:	Limits not established-metal
UEL/LEL Limits:	Not applicable-metal	Decomposition Temp:	Not applicable
Viscosity:	Not applicable-metal	Explosive properties:	Not applicable-solid metal
Oxidizing Properties:	Not established for metal		

9.2 Other Information: Above data for the whole mixture.

10. STABILITY AND REACTIVITY

10.1 <u>Reactivity:</u>	Stable.
10.2 <u>Chemical Stability:</u>	Stable
10.3 <u>Possibility of Hazardous Reactions:</u>	Not established
10.4 <u>Conditions To Avoid:</u>	None known
10.5 <u>Incompatible Materials:</u>	Avoid contact with acids, bases or oxidizing agents.
10.6 <u>Hazardous Decomposition /Combustion</u>	Harmful organic fumes and toxic oxide fumes may form at elevated temperatures. Metal oxide fumes.
10.7 <u>Hazardous Polymerization:</u>	Will not occur.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

<u>Acute toxicity:</u>	Not established	<u>Mutagenicity:</u>	Not established
<u>Irritation:</u>	Not established	<u>Toxicity for Reproduction:</u>	Not Established
<u>Corrosivity:</u>	Not applicable	<u>Absence of specific data:</u>	None available (not tested)
<u>Sensitization:</u>	Not available		
<u>Repeated dose toxicity:</u>	Not established		
<u>Carcinogenicity:</u>	Not established		

Likely Routes of Entry: eyes (irritation) /skin (irritation) /inhalation (irritation/harmful) ingestion (may be harmful)

Interactive effects: None known

11.2 Symptoms related to the physical, chemical and toxicological characteristics:

May cause irritation or harm by inhalation.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Exposure to lead fume, if applicable, may cause harm by inhalation and ingestion. Chronic exposures to lead fume, if applicable, can cause potential harm to the developing fetus. Lead exposure can be toxic.

Mixture verses substance information: None known

11.3 Other Information:

Carcinogenicity: NTP: No (National Toxicity Program)

Listing OSHA: No

IARC: Yes - Lead and lead compounds are listed as possible carcinogens. (International Agency for Research on Cancer)

Lead – Suspected human reproductive toxicant. May cause damage to organs through prolonged or repeated exposure. Reproductive toxicity – rat –inhalation, oral/ effects on newborn.

Copper - LD50 – intraperitoneal mouse 3.5 mg/kg.

Silver – LD50 oral – rat > 5,000 mg/kg

Tin – LD 50 oral-rat >2000 mg/kg

Antimony – LD50 – Oral (rat) 7000 mg/kg

Bismuth – LD50-rat->2000 mg/kg

Registry of Toxic Effects of Chemical Substances: RTECS# VM3500000 (silver), XP7320000 (tin), GL7900000 (fume/copper), CC4025000 (antimony), OF7525000 (lead), NL1050000 (indium), EB2600000 (bismuth)

12. ECOLOGICAL INFORMATION

Product mixtures not tested.

12.1 **Toxicity:** No information available

12.2 **Persistence and degradability:** No information available

12.3 **Bioaccumulative potential:** No information available

12.4 **Mobility in soil:** No information available

12.5 **Results of PBT and vPvB assessments:** No data is available

12.6 **Other adverse effects:** No information is available for mixture. Avoid release to environment.

Lead – Toxicity to fish – mortality LOEC – rainbow trout – 1.19 mg/l – 96h. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Bioaccumulation – Oncorhynchus kisutch – 2 weeks
Bioconcentration factor (BCF): 12

Copper – Toxicity to daphnia and other aquatic invertebrates mortality NOEC – Daphnia 0.004 mg/l – 24h.

Antimony –. Toxicity to fish – mortality NOEC (sheepshead minnow) 6.2 mg/l – 96h.

13. DISPOSAL CONSIDERATION

13.1 **Waste treatment method:** Scrap metal alloy usually has value. Contact a commercial reclaimer for recycling. Otherwise, dispose of in accordance with environmental regulations. Containerize material and classify according to applicable regulations. No pre-treatment on site is recommended. Do not dispose of down any drain or waterway. Utilize the same personal protective equipment as the user when handling for disposal.

13.2 **RoHS (Restriction of Hazardous Substances):** Product mixtures do not contain any PBB or PBDT brominated compounds.

Note that product mixtures may contain lead and are not complaint with RoHS. Users should review their particular use for any applicable exemptions that may apply. Review alloy table for products.

14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements.

Not regulated/non - hazardous under US DOT (United States Department of Transportation).

Not regulated/non - hazardous under international shipping requirements.

UN proper shipping name: None

Transport hazard class(s): None

Packing group: None

Environmental hazards: None

Special precautions for user: None

Transport in bulk: Not applicable

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

The information in this 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.).

All ingredients are listed on the USEPA TSCA Inventory.

All ingredients are listed on EINECS.

Safety data sheet was developed using EC 1907/2006 amended as of February, 2020 EU No 453/2010 and information as stated under regulation EC No 1272/2008 CLP Regulation.

GHS = Global Harmonized System

CLP= Classification, labeling and packaging

Product does not contain any substances ozone depleting substances and therefore not subject to EC 1005/2009.

Chemical safety assessment: None performed for mixture.

16. OTHER INFORMATION

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

Revised Date: 17 APRIL 2020

Prepared by: Nancy Swarts, The Indium Corporation of America, nswarts@indium.com
Approved by: Nancy Swarts, The Indium Corporation of America

Changes provided on this SDS were based on the requirements of EU 2020/171 as of amendments February 6, 2020 regarding EC No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

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.

ALLOY TABLE

% Metal Alloy Content Mixed with Flux (0.5-5%)

INDALLOY	RoHS**2/3 Compliance	%TIN Sn	%ANTIMONY Sb	%INDIUM In	%SILVER Ag	%COPPER Cu	%LEAD Pb	%BISMUTH Bi	%GOLD Au	SPECIFIC GRAVITY
1E (52In/48Sn)	Yes	45.6-47.8	-	49.4-51.7	-	-	-	-	-	7.30
2 (80In/15Pb/5Ag)	No	-	-	76-79.6	4.75-4.98	-	14.3-14.9	-	-	7.85
4 (100In)	Yes	-	-	95-99.5	-	-	-	-	-	7.31
7 (50In/50)	No	-	-	47.5-49.8	-	-	47.5-49.8	-	-	8.85
42 (46Bi/34Sn/20Pb)	No	32.3-33.8	-	-	-	-	19-19.9	43.7-45.8	-	8.99
104 (Sn62/Pb36/Ag2)	No	59.4-61.7	-	-	1.3-1.4	-	34.3-35.8	-	-	8.41
106 (Sn63/Pb37)	No	59.9-62.7	-	-	-	-	35.2-36.8	-	-	8.40
121 (96.5Sn/3.5Ag)	Yes	91.7-96	-	-	3.3-3.5	-	-	-	-	7.36
133 Sn95/Sb5)	Yes	90.3-94.5	4.75-4.9	-	-	-	-	-	-	7.25
156 (90Sn/10Ag)	Yes	85.5-89.6	-	-	9.5-10	-	-	-	-	7.51
161 (97.5Pb/2.5Ag)	Yes				2.38-2.48		92.6-97			11.33
171 (95Pb/5Sn)	Yes**	4.75-4.95	-	-	-	-	90-94.5	-	-	11.06
182 (80Au/20Sn)	Yes	19-19.8	-	-	-	-	-	-	76-79.6	14.51
204 (70In/30Pb)	No	-	-	66.5-69.7	-	-	28.5-29.9	-	-	8.19
228 (88Pb/10Sn/2Ag)	Yes	9.5-9.9	-	-	1.9-1.98	-	83.6-87.6	-	-	10.75
241 (95.5Sn/3.8Ag/0.7Cu)	Yes	90.7-95	-	-	3.6-3.78	0.67-0.69	-	-	-	7.40
246 (95.5Sn/4Ag/0.5Cu)	Yes	90.7-95	-	-	3.8-3.98	0.48-0.495	-	-	-	7.40
254	Yes	82.6-86.5		9.5-9.95	2.9-3.08					7.37

INDALLOY	RoHS**2/3 Compliance	%TIN Sn	%ANTIMONY Sb	%INDIUM In	%SILVER Ag	%COPPER Cu	%LEAD Pb	%BISMUTH Bi	%GOLD Au	SPECIFIC GRAVITY
(86.9Sn/10In/3.1Ag)										
256 (96.5Sn/3Ag/0.5Cu)	Yes	91.7-96	-	-	2.85-2.98	0.48-0.50	-	-	-	7.40
281 (58Bi/42Sn)	Yes	39.9-41.8	-	-	-	-	-	55-57.7	-	8.56
282 (57Bi/42Sn/1Ag)	Yes	39.9-41.6	-	-	0.95-0.99	-	-	54.2-56.7	-	8.57
290 (97In/3Ag)	Yes	-	-	92.2-96.5	2.85-2.98	-	-		-	7.38
NS (96Sn/4Ag)	Yes	91.5-95.5			3.8-3.98					7.36
NS (96.3Sn/3.7Ag)	Yes	91.5-95.8			3.5-3.68					7.36
NS (77Pb/20Sn/3Ag)	No	19-19.9			2.85-2.98		73-76.6			10.19

NS= NON STANDARD ALLOY MIXTURE

RoHS 3 – no phthalates
RoHS (2011/65/EU)