

SAFETY DATA SHEET

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

1.1 Product Identifier

Product Name: INDALLOY WITH FLUXCAKE-807 (CW-807)

SDS Number: SDS- CW 4832 **Revised Date:** 11 FEBRUARY 2019

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

Product Use: Industrial Use (Mixture) - Flux cored wire for soldering applications

See alloy table 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 Road, Clinton NY 13323 Technical & Safety Information: (315) 853-4900 Safety & SDS Information: <u>nswarts@indium.com</u> Corporation web page: http://www.indium.com

In Europe:

The Indium Corporation of America® (European Operations)

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In China:

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

In Asia:

The Indium Corporation of America Asia-Pacific Operations-Singapore 29 Kian Teck Avenue Singapore 628908 Information: +65 6268-8678

1.4 <u>Emergency telephone number</u>

FOR CHEMICAL EMERGENCY ONLY PHONE *: CHEMTREC 24 hrs. USA: 1 (800) 424-9300 Outside USA: +1 (703) 527-3887 China: Emergency 86+ 4008417580 * Used only for spill/leak/fire/exposure/accident

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

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.2 Label elements

Labeling according Regulation (EC) No 1272/2008

GHS

Lead free products



Signal Word: Warning

Hazard statement(s)

H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
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	
P362 +P364	Take off contaminated clothing and wash before reuse	
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 products



Hazard stateme	ent(s)						
H303	May be harmfu	ul if swallow	ed				
H317	May cause an						
H319	Causes seriou						
H334			na symptoms or t	preathing di	fficulties if in	nhaled	
H351	Suspected of o						
H361			rtility or the unbor	n child			
H373			ans through prolo		eated expo	sure	
H410			ith long lasting eff				
EUH201A	Warning! Cont						
EUH208			ce an allergic rea	ction			
Precautionary s	statement(s)						
P233	Keep containe	r tightly clos	ed				
P261			/gas/mist/vapors/s	spray			
P270			when using this				
P273	Avoid release						
P280	Wear protectiv	e gloves/pro	otective clothing/e	ye protectio	on/face prote	ection	
P362 +P364			thing and wash be		•		
P301 + P314	IF SWALLOW	ED: Get me	dical advice/attent	tion if you fe	eel unwell		
P302 +P352			enty of soap and				
P304 + 341	IF INHALED: I	f breathing i	s difficult, remove	victim to fre	esh air and l	keep at rest	in a position comfortable
	for breathing						
P305 + 351	•						
Reproductive to: Acute aquatic to Chronic aquatic For product cont	<u>Classification:</u> Carcinogenicity (Category 2) (lead) Reproductive toxicity (Category 2) (lead) Acute aquatic toxicity – Category 1 for lead containing products Chronic aquatic toxicity – Category 1 for lead containing products For product containing both lead and antimony the Acute and Chronic Classification is (Category 2)						
	in (Category 1B)						
Sensitization, re	spiratory (Catego	ry 1B)					
PRIMARY RO	UTES OF ENTR	RY:		Ca	arcinogen	listed in	
⊗Eye	⊗Inhalation	⊗Skin	⊗Ingestion	NTP	IARC	OSHA	⊗Not Listed
2.3 <u>OTHER</u> POTENTIAL HE	<u>HAZARDS:</u> ALTH EFFECTS	:					
Eye Contact metal may caus		e eyes and	if not removed, m	ay result in	serious irrita	ation. Conta	ct with fume from molten

Ingestion: This product contains metal alloys and organic chemicals. May be harmful if swallowed.

Inhalation: Inhalation of fume or dust may cause local irritation to the respiratory system. Inhalation of lead fume may be harmful. Rosin may cause occupational asthma. Cobalt may cause sensitization.

Skin Contact: May cause skin irritation or dermatitis. Rosin may cause skin sensitization. Antimony may cause dermatitis.

Chronic:

<u>SILVER</u>: Chronic skin contact or ingestion of silver powder, salts or fume can result in a condition known as Argyria, a condition with bluish pigmentation of the skin and eyes.

TIN: Has been shown to increase incidence of sarcoma in animal tests.

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

<u>LEAD:</u> Prolonged exposure to vapors or fumes at higher temperatures may cause respiratory irritation and systematic lead poisoning.

INDIUM: May cause irritation to respiratory system.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixture:

Components	% wt	CAS Registry #/ EINECS#
TIN	*	7440-31-5/231-141-8
SILVER	*	7440-22-4/231-131-3
COPPER	*	7440-50-8 /231-159-6
LEAD	*	7439-92-1/231-100-4
ANTIMONY	*	7440-36-0/231-146-5
INDIUM	*	7440-74-6/231-180-0
MANGANESE	doped	7439-96-5
ROSIN MIX	1.0-5.0	65997-05-9

N.E. = Not established

* See Alloy Table for breakdown of percentages of alloy mixtures Ingredients are listed even though they may not been categorized as hazardous.

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		1					0	
INDALLOY Metal Mix	Lead Pb	Tin Sn	Copper Cu	Silver Ag	Antimony Sb	Indium In	Specific Gravity (metal mix)	RoHS 2 Compliance
106 (Sn63/Pb37)	34.2-36.7	60- 62.4	-	-	-	-	8.40	No
109 (Sn60/Pb40)	38 - 39.6	57 - 59.4		-	-	-	8.50	No
121 (96.5Sn/3.5Ag)	-	91.7 -95.5	-	3.3 - 3.47	-	-	7.50	Yes
132 (95Sn/5Ag)	-	90 - 94	-	4.75 - 4.95	-	-	7.39	Yes
133 (95Sn/5Sb)	-	90-94	-	-	4.75-4.95	-	7.25	Yes
165 (97.5Pb/1.5Ag/1Sn)	92.6 - 96.5	0.95 - 0.99	-	1.43 - 1.48	-	-	11.28	Yes*
171 (95Pb/5Sn)	90-94	4.75-4.95	-	-	-	-	11.04	Yes*
227 (77.2Sn/20In/2.8Ag)	-	73-77.4	-	2.66-2.77	-	19-19.8	7.25	Yes
228 (88Pb/10Sn/2Ag)	83.6 - 87	9.5 - 9.9	-	1.9 - 1.98	-	-	10.75	Yes*
241 (SAC387) (95.5Sn/3.8Ag/0.7)	-	79-87.9	0.58-0.64	3.15-3.5	-	-	7.40	Yes
256 (SAC 305) (96.5Sn/3Ag/0.5Cu)	-	91.6 - 95.5	0.475-0.495	2.85 - 2.97	-	-	7.40	Yes
263 (SAC0307) (99Sn/0.3Ag/0.7Cu)	-	94.05 – 98.1	0.676-0.693	0.285 – 0.297	-	-	7.40	Yes
268 (SACM0510) (98.5Sn/0.5Ag/1Cu) Doped 0.05Mn	-	93.6-97.5	0.95099	0.475-0.495	-	-	7.32	Yes
Sn995 (Co995) (99.5Sn/0.5Cu/<500 ppm Co)	-	94.5 - 98.5	0.475-0.495	-	-	-	7.29	Yes
Non standard (Sn50/Pb48.5/Cu1.5)	46 – 48	47.5 - 49.5	1.43 - 1.48	-	-	-	8.84	No
Non standard (93.5Pb/5Sn/1.5Ag)	88.8 - 92.6	4.75 - 4.95	-	1.43 - 1.49	-	-	11.03	Yes*

ALLOY TABLE Metal alloy mixed with rosin (1-5%)

* Review applicable exemptions that may apply, otherwise not compliant.

RoHS 2 = (2011/65/EU)

RoHS 3 = products do not contain any listed phthalates

SECTION 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:

Skin contact may cause irritation. Long term contact may cause dermatitis. Inhalation of decomposed rosin fume may cause irritation or occupational asthma. Exposure to metal fumes may cause irritation to the respiratory system.

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

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

SECTION 5. FIRE FIGHTING MEASURES

5.1 <u>Extinguishing Media:</u> 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 <u>Advice for Firefighters</u> Fire fighter's must wear approved self-contained breathing apparatus and full protective clothing.

5.4 Further information

Material product is not flammable. No other information is available.

SECTION 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.

6.2 <u>Environmental Precautions</u>: Material has reclaim value. Material is non -- hazardous. It however does contain metals and organic chemicals which may not be suited for release to any body of water including drains.

6.3 Methods and material for containment and cleaning up:

Spill or leak procedures: If molten allow to cool then place into metals reclaim container. If solid wire pick up pieces and place into container for reclaim or reuse.

6.4 <u>Reference to other sections:</u> See Section 8 for exposure levels. See Section 13 for disposal.

SECTION 7. HANDLING AND STORAGE

7.1 <u>Precautions For Safe Handling</u>: Keep containers tightly closed when not in use. Use care to avoid spills. Use only with production equipment specifically designed for the task. Wear appropriate personal protective equipment when working or handling solder paste. 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 may contain metal fumes, rosin and organic compounds.

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 <u>Specific End Use(s):</u> Soldering applications

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 <u>Control Parameters</u>

			(<u>TWA)</u>	(<u>STEL)</u>	
		CAS#/EINECS#	mg/m3	mg/m3	
TIN	*	7440-31-5/231-141-8			
		(UK)	2	4	
		(Belgium)	2	-	
		(Germany)	2	-	
		(Netherlands)	2	-	
		(Spain)	2	-	
		(Poland)	2	-	
SILVER	*	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	-	
COPPER	*	7440-50-8 /231-159-6			
		(UK)	0.2 (fume)	0.6(fume)	
		(France)	2	0.2(fume)	

SDS –CW 4832		INDALLOY WITH FLUXCAKE	-807 (E VERSION)
	(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	-
LEAD	* 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	
	(II CIAIIU)	0.15	-
ANTIMONY	* 7440-36-0/231-146-5		
	(UK)	0.5	<u>-</u>

DS –CW 4832			INE	DALLOY WITH FLUXCA	KE-807 (E VERSION)
		(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	-
INDIUM	*	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
MANGANESE	doped	7439-96-5		N.E.	N.E.
ROSIN MIX	1.0-5.0	65997-05-9			
		(EU)	0.05	N.E.	0.15 (sensitizer)
TWA = time weighted a	verage STEI	L = short term exposure li	mit	N.E. = Not establis	hed

8.2 Exposure Controls

Engineering Controls: Use only with production equipment with adequate exhaust ventilation and other safety features specifically designed for use with wire. 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 contaminates entering the atmosphere. Emissions may contain metal fume, rosin and organic compounds.

Personal protection:

Eyes: Chemical safety glasses/goggles. Face shield for any splash hazards.

Respiratory: An approved or EU compliant CE marked air-purifying respirator with a fume/organic chemical cartridge is recommended under certain circumstances where airborne concentrations are expected to be elevated or exceed exposure limits.

Skin: Compatible chemical resistant gloves. Recommend a nitrile disposable or other chemical glove. Hot gloves for melting applications.

Other: Lab coat, eye-wash fountain in work area. Avoid the use of contact lenses in high fume areas.

Work/Hygienic 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. Follow standard lead work practices, if applicable.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:	Metal wire	Boiling Point/Range: Not determined
Odor:	Odorless	Melting Point: Not applicable
Odor Threshold:	Not established	Evaporation Rate: Not applicable
Specific Gravity:	See table	pH: Not applicable
Vapour Pressure:	No information available	Solubility in Water: Insoluble
Vapour Density:	(air=1) Not applicable.	Partition coefficient: Not established
Relative Density:	Not established	Flammability: Not applicable
Flash Point:	Not applicable	Method: Not applicable
Auto-ignition Tempe	erature: Not applicable	Flammable Limits: Limits not established
UEL/LEL Limits:	Not applicable	Decomposition Temp: Not applicable
Viscosity:	Not established	Explosive properties: Not applicable
Oxidizing Properties	: Not established	

9.2 Other Information: Above data for the whole mixture.

SECTION 10. STABILI	TY AND REACTIVITY
10.1 <u>Reactivity:</u>	Stable.
10.2 Chemical Stability:	Stable
10.3 Possibility of Hazardous	Reactions: Not established
10.4 Conditions To Avoid:	None known
10.5 Incompatible Materials:	Avoid contact with acids, bases or oxidizing agents.
10.6 <u>Hazardous Decompositio</u> <u>Combustion:</u>	on / Harmful organic fumes and toxic oxide fumes may form at elevated temperatures. Metal oxide fumes.
Hazardous Polymerization:	Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity:	Not established	<u>Mutagencity:</u>	Not established
Irritation:	Not established	Toxicity for Reproduction:	Not Established
Corrosivity:	Not applicable	Absence of specific data:	None available (not tested)
Sensitization:	Not available		
Repeated dose	toxicity: Not established		
Carcinogenicity	: Not established		
Likely Routes o	f Entry: eyes (irritation) /skin (irritation	or sensitization) /inhalation (irr	itation/sensitization) ingestion (may
be harmful)			
Interactive effect	:ts: None known		

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

Normal handling of the wire if not harmful. Cutting, melting, grinding may cause irritation or sensitization by skin and inhalation.

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

Exposure to rosin fume has been known to cause occupational asthma. 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

Other Information:

 Carcinogenicity:
 NTP: No (National Toxicity Program)

 Listing
 OSHA: No (US Occupational Safety & Health Administration)

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

Copper - LD50 - intraperitoneal mouse 3.5 mg/kg.

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

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

Cobalt: LD50 Oral – rat- 6170mg/kg, LC50 Inhalation – rat- 10 mg/l 1 h

SECTION 12. ECOLOGICAL INFORMATION

Product mixtures not tested.

- **12.1** <u>**Toxicity:**</u> No information available
- 12.2 Persistence and degradability: No information available
- 12.3 **Bioaccumulative potential:** No information available
- **12.4** <u>Mobility in soil:</u> No information available
- 12.5 Results of PBT and vPvB assessments: No data is available
- 12.6 <u>Other adverse effects:</u> No information is available for mixture. Avoid release to environment.
- Copper Toxicity to daphnia and other aquatic invertebrates mortality NOEC Daphnia 0.004 mg/l 24h.

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. Fresh fish: 0.44 mg/l LC50 96h/ 1.32 mg/l LC50 96h/water Flea: 600 ug/l EC50 = 48h

Contains substances that are harmful to aquatic life with long lasting effects.

SECTION 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.

RoHS (Restriction of Hazardous Substances): RoHS 2 (2011/65/EU) compliant for some products. Review alloy table of products. Additional RoHS is provided on the alloy table.

SECTION 14. TRANSPORT INFORMATION

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

14.1 <u>UN number</u> 14.2 <u>UN proper shipping name:</u>	None None
14.3 Transport hazard class(s):	None
14.4 Packing group:	None
14.5 Environmental hazards:	None
14.6 Special precautions for user:	None
14.7 Transport in bulk:	Not applicable

SECTION 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No 1907/2006

15.1 <u>Safety, health and environmental regulations/legislation specific for the substance or mixture:</u>

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.).

All ingredients are listed on the USEPA TSCA Inventory.

All ingredients are listed on EINECS. Note Rosin was recently listed under the No Longer Polymer List, Notification of New Chemical Substances in Accordance with Directive 67/548/EEC.

Safety data sheet was developed using EC 1907/2006 amended as of 20 May 2010 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 2037/2000.

15.2 Chemical safety assessment: None performed for mixture.

SECTION 16. OTHER INFORMATION

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

Revised Date:	11 FEBRUARY 2019	
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 No. 453/2010 of May 20, 2010 regarding amendments to 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.