

# Material Safety Data Sheet

Alloy Sn100C RMA 212



## 1. Product and company identification

**Product name** : Alloy Sn100C RMA 212  
**Synonym** : Not applicable  
**Manufacturer** : AIM  
9100 Henri Bourassa East  
Montreal, QC  
H1E 2S4  
(514) 494-2000  
  
In the United States:  
AIM  
25 Kenney Drive  
Cranston, RI 02920  
(800) CALL-AIM  
  
**Validation date** : 10/17/2016  
**Print date** : 10/17/2016  
**In case of emergency** : INFOTRAC  
North America: (800) 535-5053  
International: (352) 323-3500  
**Product type** : Solid. [Paste.]

## 2. Hazards identification

### Emergency overview

**Physical state** : Solid. [Paste.]  
**Signal word** : WARNING!  
**Hazard statements** : HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.  
**Precautionary measures** : Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not ingest. Use only with adequate ventilation. Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Use personal protective equipment as required. Wash thoroughly after handling.  
**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Potential acute health effects

**Inhalation** : Toxic by inhalation. Irritating to respiratory system.  
**Ingestion** : Toxic if swallowed.  
**Skin** : Toxic in contact with skin. Irritating to skin.  
**Eyes** : Severely irritating to eyes. Risk of serious damage to eyes.

### Potential chronic health effects

**Chronic effects** : Contains material that can cause target organ damage.  
**Carcinogenicity** : Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.

## 2. Hazards identification

- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.
- Target organs** : Contains material which causes damage to the following organs: kidneys, the nervous system, liver, bladder, eye, lens or cornea, thyroid.  
Contains material which may cause damage to the following organs: blood, lungs, upper respiratory tract, skin, central nervous system (CNS).

### Over-exposure signs/symptoms

- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Ingestion** : No specific data.
- Skin** : Adverse symptoms may include the following:  
irritation  
redness
- Eyes** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

- Medical conditions aggravated by over-exposure** : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

## 3. Composition/information on ingredients

### United States

Name	CAS number	%
tin	7440-31-5	80 - 90
rosin	8050-09-7	0.1 - 10
2-(2-butoxyethoxy)ethanol	112-34-5	0.1 - 10
Nickel	7440-02-0	0.1 - 10

### Canada

Name	CAS number	%
tin	7440-31-5	80 - 90
rosin	8050-09-7	0.1 - 10
2-(2-butoxyethoxy)ethanol	112-34-5	0.1 - 10
N-(n-octyl)-2-pyrrolidone	2687-94-7	0.1 - 10
Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether	9038-95-3	0.1 - 10
Nickel	7440-02-0	0.1 - 10

### Mexico

Name	CAS number	UN number	%	IDLH	Classification			
					H	F	R	Special
rosin	8050-09-7	Not available.	0.1 - 10	-	1	0	0	-
2-(2-butoxyethoxy)ethanol	112-34-5	Not available.	0.1 - 10	-	2	2	0	-
tin	7440-31-5	Not regulated.	80 - 90	100 mg/m <sup>3</sup>	0	0	0	-

### 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### 5. Fire-fighting measures

- Flammability of the product** : No specific fire or explosion hazard.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- 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.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

- 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**

## 6. Accidental release measures

- Small spill** : Move containers from spill area. Avoid dust generation. Do not dry sweep. Place spilled material in a designated, labeled waste container. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, 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.

## 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. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- 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. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

### United States

Ingredient	Exposure limits
tin	<p><b>OSHA (United States, 0/1997). Notes: Respirable</b> TWA: 2 mg/m<sup>3</sup></p> <p><b>NIOSH (United States, 0/1994). Notes: Respirable</b> TWA: 2 mg/m<sup>3</sup> STEL: 4 mg/m<sup>3</sup></p> <p><b>ACGIH TLV (United States, 3/2016).</b> TWA: 2 mg/m<sup>3</sup>, (as Sn) 8 hours.</p> <p><b>NIOSH REL (United States, 10/2013).</b> TWA: 2 mg/m<sup>3</sup>, (as Sn) 10 hours.</p>
rosin	<p><b>ACGIH TLV (United States, 3/2016). Skin sensitizer. Inhalation sensitizer.</b></p>
2-(2-butoxyethoxy)ethanol	<p><b>ACGIH TLV (United States, 3/2016).</b> TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor</p>
Nickel	<p><b>ACGIH TLV (United States, 3/2016).</b> TWA: 1.5 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 1 mg/m<sup>3</sup>, (as Ni) 8 hours.</p> <p><b>NIOSH REL (United States, 10/2013).</b> TWA: 0.015 mg/m<sup>3</sup>, (as Ni) 10 hours.</p> <p><b>OSHA PEL (United States, 2/2013).</b> TWA: 1 mg/m<sup>3</sup>, (as Ni) 8 hours.</p>

### Canada

## 8. Exposure controls/personal protection

<u>Occupational exposure limits</u>		<u>TWA (8 hours)</u>			<u>STEL (15 mins)</u>			<u>Ceiling</u>			
<u>Ingredient</u>	<u>List name</u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>Other</u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>Other</u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>Other</u>	<u>Notations</u>
tin, as Sn	US ACGIH 3/2016	-	2	-	-	-	-	-	-	-	
	AB 4/2009	-	2	-	-	-	-	-	-	-	
tin	BC 5/2015	-	2	-	-	-	-	-	-	-	
	ON 7/2015	-	2	-	-	-	-	-	-	-	
	QC 1/2014	-	2	-	-	-	-	-	-	-	
	SK 7/2013	-	2	-	-	4	-	-	-	-	
rosin	US ACGIH 3/2016	-	-	-	-	-	-	-	-	-	[3][4]
rosin, formaldehyde	QC 1/2014	-	0.1	-	-	-	-	-	-	-	[3]
2-(2-butoxyethoxy)ethanol	US ACGIH 3/2016	10	-	-	-	-	-	-	-	-	[a]
	ON 7/2015	10	-	-	-	-	-	-	-	-	[b]
Nickel	US ACGIH 3/2016	-	1.5	-	-	-	-	-	-	-	[c]
	AB 4/2009	-	1.5	-	-	-	-	-	-	-	
Nickel, as Ni	BC 5/2015	-	0.05	-	-	-	-	-	-	-	
Nickel	ON 7/2015	-	1	-	-	-	-	-	-	-	[d]
	QC 1/2014	-	1	-	-	-	-	-	-	-	
	SK 7/2013	-	1.5	-	-	3	-	-	-	-	[c]

[3]Skin sensitization [4]Respiratory sensitization

Form: [a]Inhalable fraction and vapor [b]Inhalable fraction and vapour. [c]Inhalable fraction [d]Inhalable fraction.

### Mexico

#### Occupational exposure limits

<u>Ingredient</u>	<u>Exposure limits</u>
tin	<b>NOM-010-STPS (Mexico, 4/2016).</b> LMPE-PPT: 2 mg/m <sup>3</sup> 8 hours.
rosin	<b>ACGIH TLV (United States, 3/2016). Skin sensitizer. Inhalation sensitizer.</b>
2-(2-butoxyethoxy)ethanol	<b>ACGIH TLV (United States, 3/2016).</b> TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor

#### **Consult local authorities for acceptable exposure limits.**

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**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.

#### Personal protection

**Respiratory** : Use a properly fitted, particulate filter 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.

## 8. Exposure controls/personal protection

- 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- 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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- 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.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

- Physical state** : Solid. [Paste.]
- Dispersibility properties** : Not dispersible in the following materials: cold water, hot water, methanol, diethyl ether, n-octanol and acetone.

### Aerosol product

## 10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological information

### United States

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
rosin 2-(2-butoxyethoxy)ethanol	LD50 Oral	Rat	7600 mg/kg	-
	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Dermal	Rabbit	4120 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
	LD50 Oral	Rat	5660 mg/kg	-
Nickel	LDLo Oral	Guinea pig	5 mg/kg	-

- Conclusion/Summary** : Not available.

#### Chronic toxicity

- Conclusion/Summary** : Not available.

#### Irritation/Corrosion

## 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-

**Conclusion/Summary** : Not available.

### Sensitizer

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
tin	-	-	-	-	-	None.
2-(2-butoxyethoxy)ethanol	-	4	-	A5	-	None.
Nickel	-	2B	Reasonably anticipated to be a human carcinogen.	A5	-	+

### Mutagenicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Canada

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
rosin	LD50 Oral	Rat	7600 mg/kg	-
	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Dermal	Rabbit	4120 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
	LD50 Oral	Rat	5660 mg/kg	-
N-(n-octyl)-2-pyrrolidone	LD50 Oral	Rat	2050 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether	LD50 Oral	Rat	>5000 mg/kg	-
Nickel	LDLo Oral	Guinea pig	5 mg/kg	-

**Conclusion/Summary** : Not available.

### Chronic toxicity

**Conclusion/Summary** : Not available.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
N-(n-octyl)-2-pyrrolidone	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-
Oxirane, 2-methyl-, polymer	Eyes - Severe irritant	Rabbit	-	50 milligrams	-

## 11. Toxicological information

with oxirane, monobutyl ether	Skin - Mild irritant	Rabbit	-	500 milligrams	-
-------------------------------	----------------------	--------	---	----------------	---

**Conclusion/Summary** : Not available.

### Sensitizer

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
tin	-	-	-	None.	-	-
2-(2-butoxyethoxy)ethanol	A5	4	-	None.	-	-
Nickel	A5	2B	-	+	Reasonably anticipated to be a human carcinogen.	-

### Mutagenicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Mexico

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
rosin	LD50 Oral	Rat	7600 mg/kg	-
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Dermal	Rabbit	4120 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
	LD50 Oral	Rat	5660 mg/kg	-

**Conclusion/Summary** : Not available.

### Chronic toxicity

**Conclusion/Summary** : Not available.

### Irritation/Corrosion

Product/ingredient name	Result	Score	Score	Exposure	Observation
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-

**Conclusion/Summary** : Not available.

### Sensitizer

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Classification



## 11. Toxicological information

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
tin	-	-	-	None.	-	-
2-(2-butoxyethoxy)ethanol	A5	4	-	None.	-	-
Nickel	A5	2B	-	+	Reasonably anticipated to be a human carcinogen.	-

### Mutagenicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Other information

: To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

## 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

### United States

#### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
2-(2-butoxyethoxy)ethanol Nickel	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute EC50 2 ppm Marine water	Algae - Macrocystis pyrifera - Young	4 days
	Acute EC50 450 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 1000 µg/l Marine water	Daphnia - Daphnia magna	48 hours
	Acute IC50 0.31 mg/l Marine water	Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 47.5 ng/L Fresh water	Fish - Heteropneustes fossilis	96 hours
	Chronic NOEC 100 mg/l Marine water	Algae - Glenodinium halli	72 hours
	Chronic NOEC 3.5 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks

**Conclusion/Summary** : Not available.

### Persistence/degradability

**Conclusion/Summary** : Not available.

### Canada

#### Aquatic ecotoxicity

## 12. Ecological information

Product/ingredient name	Result	Species	Exposure
2-(2-butoxyethoxy)ethanol Nickel	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute EC50 2 ppm Marine water	Algae - Macrocystis pyrifera - Young	4 days
	Acute EC50 450 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 1000 µg/l Marine water	Daphnia - Daphnia magna	48 hours
	Acute IC50 0.31 mg/l Marine water	Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 47.5 ng/L Fresh water	Fish - Heteropneustes fossilis	96 hours
Chronic NOEC 100 mg/l Marine water	Algae - Glenodinium halli	72 hours	
Chronic NOEC 3.5 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks	

**Conclusion/Summary** : Not available.

**Persistence/degradability**

**Conclusion/Summary** : Not available.

**Mexico**

**Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
2-(2-butoxyethoxy)ethanol	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours

**Conclusion/Summary** : Not available.

**Persistence/degradability**

**Conclusion/Summary** : Not available.

## 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information

## 14. Transport information

<b>DOT Classification</b>	Not regulated.	-	-	-	-	<b>Reportable quantity</b> 28571.4 lbs / 12971.4 kg Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
<b>TDG Classification</b>	Not regulated.	-	-	-	-	-
<b>Mexico Classification</b>	Not regulated.	-	-	-	-	-
<b>ADR/RID Class</b>	Not regulated.	-	-	-	-	-
<b>IMDG Class</b>	Not regulated.	-	-	-	-	-
<b>IATA-DGR Class</b>	Not regulated.	-	-	-	-	-

PG\* : Packing group

## 15. Regulatory information

### United States

- HCS Classification** : Toxic material  
Irritating material  
Carcinogen  
Target organ effects
- U.S. Federal regulations** : **TSCA 4(a) final test rules:** 2-(2-butoxyethoxy)ethanol  
**TSCA 8(a) PAIR:** 2,2',2''-nitrioltriethanol; 2,2'-iminodiethanol  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**TSCA 8(d) H and S data reporting:** 2,2'-iminodiethanol: 1989  
**TSCA 12(b) one-time export:** 2-(2-butoxyethoxy)ethanol  
**Commerce control list precursor:** 2,2',2''-nitrioltriethanol; dimethylammonium chloride  
Not determined.  
**Clean Water Act (CWA) 307:** copper; Nickel
- Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed
- Clean Air Act Section 602 Class I Substances** : Not listed
- Clean Air Act Section 602 Class II Substances** : Not listed
- DEA List I Chemicals (Precursor Chemicals)** : Not listed
- DEA List II Chemicals (Essential Chemicals)** : Not listed

## 15. Regulatory information

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Immediate (acute) health hazard  
Delayed (chronic) health hazard

#### Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
tin	80 - 90	No.	No.	No.	Yes.	No.
rosin	0.1 - 10	No.	No.	No.	Yes.	Yes.
2-(2-butoxyethoxy)ethanol	0.1 - 10	Yes.	No.	No.	Yes.	No.
Nickel	0.1 - 10	Yes.	No.	No.	Yes.	Yes.

### SARA 313

	Product name	CAS number	%
<b>Form R - Reporting requirements</b>	2-(2-butoxyethoxy)ethanol	112-34-5	0.1 - 10
	Nickel	7440-02-0	0.1 - 10
<b>Supplier notification</b>	2-(2-butoxyethoxy)ethanol	112-34-5	0.1 - 10
	Nickel	7440-02-0	0.1 - 10

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

### State regulations

- Massachusetts** : The following components are listed: TIN
- New York** : The following components are listed: Nickel
- New Jersey** : The following components are listed: TIN; 2-(2-butoxyethoxy)ethanol
- Pennsylvania** : The following components are listed: TIN; ROSIN CORE SOLDER PYROLYSIS PRODUCTS; 2-(2-butoxyethoxy)ethanol

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Nickel	Yes.	No.	No.	No.
2,2'-iminodiethanol	Yes.	No.	No.	No.

**United States inventory (TSCA 8b)** : Not determined.

### Canada

**WHMIS (Canada)** : Class D-2A: Material causing other toxic effects (Very toxic).  
Class D-2B: Material causing other toxic effects (Toxic).

### Canadian lists

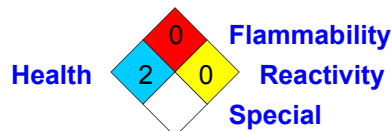
- Canadian NPRI** : The following components are listed: Diethylene glycol butyl ether
- CEPA Toxic substances** : The following components are listed: 2-(2-butoxyethoxy)ethanol
- Canada inventory** : Not determined.

## 15. Regulatory information

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.

### Mexico

Classification :



### International regulations

**International lists** :

- Australia inventory (AICS): Not determined.
- China inventory (IECSC): Not determined.
- Japan inventory (ENCS): Not determined.
- Japan inventory (ISHL): Not determined.
- Korea inventory: Not determined.
- Malaysia Inventory (EHS Register): Not determined.
- New Zealand Inventory of Chemicals (NZIoC): Not determined.
- Philippines inventory (PICCS): Not determined.
- Taiwan Chemical Substances Inventory (TCSI): Not determined.
- Turkey inventory: Not determined.

**Chemical Weapons Convention List Schedule I Chemicals** : Not listed

**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Listed

## 16. Other information

**Label requirements** : HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

**Hazardous Material Information System (U.S.A.)** :

Health	2
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)** :

## 16. Other information



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

**Date of printing** : 10/17/2016  
**Date of issue** : 10/17/2016  
**Date of previous issue** : 7/9/2015  
**Version** : 0.03  
**Prepared by** : Not available.

📌 Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.