

# SAFETY DATA SHEET

Sn-Pb NC254



## 1. Identification of the substance/preparation and of the company/undertaking

### Identification of the substance or preparation

**Product name** : Sn-Pb NC254  
**Product type** : Paste.  
**Synonyms** : For all alloys (Sn-Pb) NC 254  
**Use of the substance/preparation** : Soldering

### Company/undertaking identification

**Contacts** : AIM  
 9100 Henri Bourassa East  
 Montreal, QC  
 H1E 2S4  
 (514) 494-2000

INFOTRAC  
 North America: (800) 535-5053  
 International: (352) 323-3500

## 2. Composition/information on ingredients

**Substance/preparation** : Preparation

Ingredient name	CAS number	%	EC number	Classification
<b>Europe</b>				
TIN	7440-31-5	Variable	231-141-8	
LEAD	7439-92-1	Variable	231-100-4	
rosin	8050-09-7	1.5 - 5	232-475-7	
<b>See section 16 for the full text of the R-phrases declared above</b>				

Occupational exposure limits, if available, are listed in section 8.

## 3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Xi; R36/38  
 R42/43

**Human health hazards** : Irritating to eyes and skin.  
 May cause sensitization by inhalation and skin contact.

See section 11 for more detailed information on health effects and symptoms.

## 4. First aid measures

### First aid measures

**Inhalation** : Get medical attention immediately. Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In the event of any complaints or symptoms, avoid further exposure.

## 4. First aid measures

- Ingestion** : Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
- 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.

See section 11 for more detailed information on health effects and symptoms.

## 5. Fire-fighting measures

### Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : No specific hazard.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...). Some metallic 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.
- Remark** : Vapors and air form an explosive mixture.

## 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

## 7. Handling and storage

- Handling** : Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Do not breathe dust. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended** : Use original container.

## 8. Exposure controls/personal protection

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
Europe	

## 8. Exposure controls/personal protection

TIN	<b>ACGIH (United States, 0/1994). Notes: Respirable</b> TWA: 2 mg/m <sup>3</sup>
LEAD	<b>ACGIH TLV (United States, 1/2005).</b> TWA: 2 mg/m <sup>3</sup> 8 hour/hours. Form: All forms <b>EU OEL (Europe, 4/2004). Notes: Binding</b> TWA: 0.15 mg/m <sup>3</sup> 8 hour/hours. Form: All forms

**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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

### Exposure controls

- Occupational exposure controls** : Use only with adequate ventilation. If user operations generate dust, fumes, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Respiratory protection** : 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.
- Hand protection** : 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.
- Eye protection** : 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, gases or dusts.
- Skin protection** : 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.  
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.
- 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

### General information

#### Appearance

- Physical state** : Solid. (Paste.)
- Color** : Grey
- Odor** : Typical rosin.

### Important health, safety and environmental information

- Explosive properties** : Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.
- Solubility** : Very slightly soluble in methanol.  
Insoluble in cold water, hot water, diethyl ether, n-octanol, acetone.
- Octanol/water partition coefficient** : The product is insoluble in water and octanol.
- Evaporation rate (butyl acetate = 1)** : Less than 1. (Rosin, hydrogenated) compared with Butyl acetate.

## 10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to avoid** : Stable in normal conditions. Over melting point, toxic metallic oxides may be evolved.
- Materials to avoid** : Reactive or incompatible with the following materials: oxidizing materials, metals, acids and moisture.

## 11. Toxicological information

### Potential acute health effects

- Inhalation** : Fumes and/or dusts produced by this product may be hazardous in case of inhalation.
- Ingestion** : Fumes and/or dusts produced by this product may be hazardous in case of ingestion. This product may be hazardous in case of ingestion
- Skin contact** : This product may be hazardous in case of prolonged skin contact
- Eye contact** : This product may irritate eyes upon contact.

### Acute toxicity

<u>Product/ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
LEAD	LDLo	160 mg/kg	Oral	pigeon

### Potential chronic health effects

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.
- Target organs** : Contains material which causes damage to the following organs: blood, kidneys, lungs, the nervous system, the reproductive system, spleen, brain, digestive system, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, thyroid.

## 12. Ecological information

### Ecotoxicity data

<u>Product/ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
LEAD	Oncorhynchus mykiss (LC50)	96 hour/hours	1.17 mg/l
	Oncorhynchus mykiss (LC50)	96 hour/hours	471 mg/l
	Oncorhynchus mykiss (LC50)	96 hour/hours	542 mg/l

- Other adverse effects** : No known significant effects or critical hazards.

## 13. Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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.
- Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.
- Norway - Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

## 14. Transport information

### International transport regulations

Regulatory information	UN number	Proper shipping name	Class	PG*	Label	Additional information
ADR/RID Class	Not regulated.	-	Not controlled under ADR (Europe)	-		-
ADNR Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	Not controlled under IMDG.	-		-
IATA Class	Not regulated.	-	Not controlled under IATA.	-		-

PG\* : Packing group

## 15. Regulatory information

### EU regulations

Hazard symbol/symbols :



Irritant

Risk phrases

: R36/38- Irritating to eyes and skin.  
R42/43- May cause sensitization by inhalation and skin contact.

Safety phrases

: S22- Do not breathe dust.  
S24- Avoid contact with skin.  
S37- Wear suitable gloves.

Contains

: TIN  
rosin

231-141-8  
232-475-7

Product use

: Classification and labeling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.  
- Industrial applications.

### Other EU regulations

EU statistical classification : 32089091  
(Tariff Code)

### National regulations

#### Denmark

Hazard symbol/symbols :



Irritant

Risk phrases

: R36/38- Irritating to eyes and skin.  
R42/43- May cause sensitization by inhalation and skin contact.

Safety phrases

: S22- Do not breathe dust.  
S24- Avoid contact with skin.  
S37- Wear suitable gloves.

Contains

: TIN  
rosin

231-141-8  
232-475-7

## 15. Regulatory information

**Denmark – Restrictions on use** : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order on young people's dangerous work.

### Norway

**Hazard symbol/symbols** :



Irritant

**Risk phrases** : R36/38- Irritating to eyes and skin.  
R42/43- May cause sensitization by inhalation and skin contact.

**Safety phrases** : S22- Do not breathe dust.  
S24- Avoid contact with skin.  
S37- Wear suitable gloves.

**Carcinogenic class** : Not classified.

**Contains** : TIN 231-141-8  
rosin 232-475-7

### France

**Professional disease/diseases** : LEAD  
rosin  
**Table number/numbers** 1  
**Table number/numbers:**65,  
66

### Germany

**Employment restrictions in accordance with section 15b of the Hazardous Substance Ordinance** : Yes.

**Hazardous incident ordinance** : No.

**Hazard class for water** : 1

### Austria

**Limitation of the use of organic solvents** : Permitted.

### Switzerland

**Poison class** : 4

**BAG T** : 619004

**VOC content** : Liberated.

### Italy

**Emission control directive** : 105.9% Not classified.

## 16. Other information

**Full text of R-phrases referred to in sections 2 and 3 - Europe** : R36/38- Irritating to eyes and skin.  
R42/43- May cause sensitization by inhalation and skin contact.

**Full text of classifications referred to in sections 2 and 3 - Europe** : Xi - Irritant

### History

**Date of printing** : 10/1/2008.

**Date of issue** : 10/1/2008.

**Date of previous issue** : No previous validation.

**Version** : 1

### Notice to reader

## 16. 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.*

## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [aim manufacturer](#):*

Other Similar products are found below :

[SAC305NC257-2-J250](#) [13223](#) [62NC254S10-PT](#) [14317](#) [13563](#) [13154](#) [14314](#) [15064](#) [13388](#) [264-5-1L](#) [13287](#) [13283](#) [13560](#)

[SAC305GLOWCORE-2.5%-.025-1](#) [14080](#) [14076](#) [13286](#) [14962](#) [14600](#) [13949](#) [14320](#) [15033](#) [13158](#) [13411](#) [SAC305GLOWCORE-2.5%-](#)  
[0.015](#) [13236](#) [13427](#) [14823](#) [13211](#) [13562](#) [13772](#) [5225](#) [13368](#) [13308](#) [NC254AXS10-PT](#) [14054](#) [CT-L63-S0515](#) [13291](#) [5202](#) [5040](#) [54068](#)