

# MATERIAL SAFETY DATA SHEET

## 1. INFORMATION BY PRODUCER

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## 2. THE NAME OF PRODUCT : LLS219A-B18

### 3. Specification of Product

One-component Metal/Alloy: Alloy

COMPONENT	CHEMICAL FORMULA	CONTENT(wt.%)	CAS No.	The Law of PRTR
Tin	Sn	97.00	7440-31-5	—
Silver	Ag	3.00	7440-22-4	First No.64

## 4. CLASSIFICATION OF DANGER OR TOPIC PROPERTIES : NO DATA

## 5. EMERGENCY OPERATION (In the case of powder and fume)

Inhalation of gas : Immediately transported to the fresh air filled place, keep warm and quiet. Treatment by doctor may be necessary.

Getting into eyes : After washing eyelid with clean water for over 15 minutes, eye treatment by doctor must be done.

Swallow : Be washed mouth, throw up swallowed paste. Keep warm and quiet. Treatment by doctor must be necessary.

## 6. Extinction Operation of a Fire

Extinguisher, Extinguishing method : Because of none flammable substance, no relation

## 7. The Operation after Oozing

Attention for Environmental : No data

Wiping Method :

When Powdered Solder residue lay scatted on floor, Wiped off with for example vacuum cleaner.

## 8. Attention in Handling and Keeping

Handling

Technical measure : No relation

Attention for the protection of solder dust :

Take care for solder dust not to lay scattered to the surrounding.

Attention for Safety Handling :

Don't smoke and eat in working hours. Prepare the equipment for washing, wash hands and face after handling.

Storage

Technical measure : No relation

Information about storage in one common storage facility : Not required

Suitable storage conditions : The place where water and dirt do not adhere.

The storage conditions to avoid : The place which does not adhere to an acid and alkaline substance.

## 9. The Measure for Protection of Exposure

A state of facilities : No relation

Ingredients with limit values that require monitoring at the workplace :

Tin : Long-term value  $2\text{mg}/\text{m}^3$

Silver : Long-term value  $0.1\text{mg}/\text{m}^3$

The protection implement for respiratory organs, a hand, and an eye : Unnecessary in many case.

## 10. Physical & Chemical Properties

Physical state : Solid  
Appearance : Silver White  
Density at 20°C : 7.4g/cm<sup>3</sup>  
Melting Point : Solid phase temperature 221°C  
Liquid phase temperature 222°C  
Smell : Odorless  
Vapor Press : Negligible  
Solubility : Soluble in hydrochloric acid, conc. Sulfuric acid, dilute nitric acid,  
and also soluble hot sodium hydroxide solution.

## 11. Information of Dangerous Property

Especial condition : Surface oxidation may happen in incandescent white hot temperature.  
Stability : Soluble in strong acid and alkali.

## 12. Information for Danger

Rapid Toxicity : Not Clear(probably negligible)  
Symptom of Limited Area : Stimulation of membrane(Invasion type:dust,vapor)  
Repeated Exposure : A disease of pneumonia(A kind of benign silicosis by tin)

## 13. The Effect of Circumstance: Not Clear

## 14. The Attention in the Case of Disposal

The thing which needs the surplus abandonment :  
Treat according to rule and law, or consign to the officially admitted trader.  
The container and packing which were polluted : No relation

## 15. The Attention in the Case of Transportation

A cord by international regulation and information about a classification : No relation  
Safety measures and a condition of the transportation :  
Necessity of care of stumble, fall over and damage, and prevention of fall of load, when stacking up.

## 16. Application Statute

The law and rule applied in Japan for waste treatment and cleaning.  
The law of PRTR (Pollutant Release and Transfer Register).

## 17. Other than this

The information indicated here is created according to our data and technical publication data.  
When you use this product, a user needs to use this information in that responsibility.  
The indicated information is the newest information at present.  
However, when there is correction of a law and a rule and the official announcement  
of a poisonous new inspection will arise from now on, please agree to be improved.