



## Material safety data table

### 1、Item and manufacturer information

Item name:	40/60soldering tin
manufacturer:	Ningbo Yinzhou Luxiang Solder Material Co., LTD
Address:	Ningbo Yinzhou District Xianxiang town outside Cai industrial zone
Phone:	+86-574-88305772, 87803938
Tax:	+86-574-87808931

### 2、Component identification data

ingredient:	content:	CAS No: .
Tin	38%	7440-31-5
Lead	60%	7439-92-1
Antimony	2%	7440-36-0

### 3、Hazard identification data

Hazard class:	hazardous
invasion route:	Inhalation, ingestion, eye and skin contact
health hazard:	Damage hematopoietic, nervous, digestive system and kidney. Occupational poisoning is mainly chronic. The main manifestations of the nervous system are neurasthenic syndrome, peripheral neuropathy (motor function is more obvious), and lead poisoning encephalopathy in severe cases. The digestive system presents with lead lines in the gums, loss of appetite, nausea, bloating, diarrhea or constipation, and abdominal cramps in moderate to severe cases. Hematopoietic system damage porphyrin metabolism disorders, anemia and so on. Short-term exposure to large doses can cause acute or subacute lead poisoning, similar to severe chronic lead poisoning.
Environmental harm	It has serious harm to the environment and can pollute water, soil and atmosphere
Fire and explosion hazard:	The powder of this product is flammable



#### 4、emergency treatment

skin exposure:	Remove contaminated clothing and rinse with running water.
Eye exposure:	Open your eyes immediately, Rinse with plenty of water or saline for 15 minutes and seek medical attention
inhalation:	Quickly leave the scene to the fresh air, keep the airway clear, if breathing difficulty, give oxygen. If breathing stops, give artificial respiration immediately. Seek medical attention.
ingestion:	Drink enough warm water, vomiting, gastric lavage, drainage, medical treatment.

#### 5、fire extinguishing measure

hazardous characteristics:	Its powder contact with open flame, oxidizer will cause combustion explosion.
Harmful combustion products:	Tin oxide, lead oxide.
method of extinguishing:	Fire fighters shall wear gas masks and full-body fire suits to extinguish fires in the upwind direction. Fire extinguishing agent: dry powder, sand.

#### 6、Leakage treatment method

Leakage treatment method:	Recycle
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#### 7、Operational handling and storage and storage methods

operation cautions :	Operators must be specially trained and strictly abide by the operating procedures. It is recommended that operators wear chemical safety protective glasses, wear anti-gas penetration work clothes, and wear latex gloves. Avoid contact with acids. When handling, light loading and unloading should be done to prevent damage to packaging and containers. Equipped with the corresponding variety and quantity of fire equipment and leakage emergency treatment equipment
Storage precautions :	Store in a cool, ventilated warehouse, away from fire and heat. Should be stored separately from acids, do not mix storage. Equipped with the corresponding variety and quantity of fire equipment. Storage areas should be equipped with suitable materials to contain leaks.



### 8、Contact control/Personal protection

Engineering control	No special protection is usually required.
monitoring method	Graphite furnace atomic absorption spectrometry; Flame atomic absorption spectrometry.
OEL (=occupational exposure limit)	China MAC(mg/m <sup>3</sup> ): no date Soviet Union MAC(mg/m <sup>3</sup> ): no date TLVTN: no date TLVWN: no date
personal safety equipment	Respiratory system protection: When the concentration in the air exceeds the standard, wear a filter gas mask (half mask). Eye protection: Wear chemical safety protection for your eyes. Body protection: Wear protective work clothes. Hand protection: Wear latex gloves. Other protection: Smoking, eating and drinking are prohibited at the work site.

### 9、Physical and chemical properties

appearance:	Grayish white soft filaments	melting point(°C):	193
boiling point(°C):	No date	ph:	No date
density ratio(water=1):	9.4	relative vapour density( air =1):	No date
Saturatedvapor pressure(kPa):	No date	heat of combustion(kJ/mol):	No date
point of flammability(°C):	No date	ignition temperature(°C):	No date
Upperexplosive limit%(V/V):	No date	Lower explosive limit % (V/V):	No date
critical temperature(°C):	No date	critical pressure(MPa):	No date
solubleness:	Insoluble in water, soluble in nitric acid, hot concentrated sulfuric acid, lye, insoluble in dilute hydrochloric acid.		



### 10、Stability and reactivity

stability:	stable
Forbidden collocation	Strong acid
Avoid contact conditions:	Open flame, high heat
Polymerization hazard:	Can't happen
decomposition product:	doesn't break down

### 11、Toxicity data

acute toxicity:	No date	Subacute and chronic toxicity:	No date
LC50:	No date	LD50:	CAS: 7440-22-4 LD50: LDLo IPR-RAT 1000mg/kg
thrill:	No date	sensitization:	No date
mutagenicity:	No date	teratogenicity:	No date
carcinogenicity:	No date	influence:	No date

### 12、Ecological data

Ecotoxicological toxicity:	No date	Non-biodegradable:	No date
biodegradability:	When the concentration of water is 0.1mg/L, the biochemical self-purification ability of water body is inhibited	Bioenrichment or bioaccumulation:	No date
Other harmful effects:	Olfactory threshold concentration in water: When the concentration of lead in water is 2mg/L, there is a metallic taste.		

### 13、Waste disposal method

Waste disposal method:	Recycle if possible
Disposal considerations:	Do not allow this product to reach surface water, waterways or sewage systems



#### 14、Product-shipments data

Dangerous goods number	No date
UN number:	No date
Packing mark:	No date
categories of packing:	No date
Packing way:	No date
Transportation precautions:	It is strictly prohibited to mix with acids. During transportation, it should be protected from sunlight, rain and high temperature.

#### 15、Regulatory information

Regulatory information:	Regulations on the Safety Administration of Chemical Dangerous Substances (issued by The State Council on February 17, 1987), Rules for the Implementation of Regulations on the Safety Administration of Chemical Dangerous Substances (Hualofa [1992] No. 677), Regulations on the safe Use of Chemicals in workplaces ([1996] No. 423), etc. Relevant provisions are made for the safe use, production, storage, transportation, loading and unloading of chemical dangerous goods. Health Standard for lead and its inorganic compounds in the atmosphere (GB 7355-87), which specifies the maximum allowable concentration in the air of workplace and the method of detection.
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#### 16、other details

references:	"Chemical Dangerous Goods Regulations and Standards Practical Manual", "Hazardous chemicals Safety Technology book"
listing unit:	Ningbo Yinzhou Luxiang Solder Material Co., LTD
Listing date:	2013.08.21
Other info:	The information contained herein is based on data believed to be accurate and is for information, reflection and research purposes only. Lu Xiang further affirms that no warranty, representation or liability can be made for the accuracy, completeness or suitability of the data provided for the use of the purchaser. The data recorded in this material safety information is for this product only and does not relate to the use of other materials or processes. All chemical products should be used under the premise of understanding the possible dangers in the subsequent operation process, and under the guidance of specialized technical personnel who know how to use them reasonably. The



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**NINGBO YINZHOU LAND WING SOLDER MATERIALS CO.,LTD**

hazardous Operation rules require that employees must receive professional training, understand the knowledge of hazardous information, and operate in accordance with the information of the safe operation rules.

