

## SOLNET METAL INDUSTRY CO.,LTD.

## MATERIAL SAFETY DATA SHEET

Identity	Document No.	WU-04 Sn60Pb40
SOLDER WU-04 Sn60-W	Revision No.	A0
	Data Prepared	01. Jan, 2018

## Section I

Manufacture Name	SOLNET METAL INDUSTRY CO.,LTD		
Address	No.9, Ln. 83, Huacheng Rd., Xinzhuang Dist., New Taipei City 242, Taiwan (R.O.C.)		
Telephone Number	886-2-29916040	Facsimile	886-2-29928901

## Section II – Hazardous Ingredients and Identity Information /

Hazardous Components	CAS No.	OSHA PEL	ACGIH TLV	%
Tin Sn	7440-31-5	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	59-61
Lead Pb	7439-92-1	0.05mg/m <sup>3</sup>	0.15mg/m <sup>3</sup>	39-41
Resin	65997-05-9			1.6-2.0

## Section III – Physical and Chemical Characteristics /

Boiling point	NA	Specific gravity (H <sub>2</sub> O=1)	8.5
Vapor pressure (mm Hg)	NA	Melting point (Alloys)	183-190°C
Vapor density (Air=1)	NA	Evaporation rate(Butyl acetate=1)	NA
Solubility in water	Insoluble		
Appearance and odor	Silver-gray metal, odorless		

## Section IV – Fire and Explosion Hazard Data /

Flash Point (Solvent used in this flux)	NA		
Flammable limits in air % by volume	LEL: NE	UEL: NE	
Extinguishing media	Carbon dioxide and/or dry chemical		
Special fire fighting procedures	Use self-contained breathing apparatus and full protective clothing for fires in enclosed areas. When heated to high temperatures, <b>lead</b> emits highly toxic fumes.		
Unusual fire and explosion hazards	None known		

SOLNET METAL INDUSTRY CO.,LTD.

Section V –Reactivity data /

Stability	Unstable		Stable	X
Conditions to avoid	Keep away from heat, sparks and open flames			
Incompatibility	Strong acids, strong oxidizers, hydrogen peroxide			
Hazardous decomposition or by-products	NA			
Hazardous polymerization	May occur		Will not occur	X

Section VI –Health hazard data /

Route of entry	Inhalation , Skin , Ingestion
Health hazards	When heated, vapors can cause irritation to eyes, nose and throat. May cause headache. The chief effects of excessive <b>lead</b> intake are anemia, neurological disorders and kidney damage.
Carcinogenicity	Not list NTP , IARC Monographs , OSHA Regulated
Signs and symptoms of exposure	Anemia, irritation of pulmonary system, headaches.
Medical conditions generally aggravated by exposure	Pre-existing conditions of the lungs, diseases of the blood and blood forming organs; kidneys, nerves and possibly reproductive systems.
Emergency and first aid procedures	Perform the following first-aid procedures; consult a physician and get medical treatment when necessary.
Inhalation	Excessive overexposure may result in an acute or chronic illness. If symptoms are present, the individual should be removed from exposure and a physician consulted.
Ingestion	Call a physician at once.
Skin contact	For hot metal burns, exposed area should be cooled with water and get medical treatment. After handling solder, wash thoroughly with soap and water.
Eye contact	Flush with large amount of water and get medical treatment.

SOLNET METAL INDUSTRY CO.,LTD.

Section VII—Precautions for safe handling and use /

Precaution to be taken in handling and storing	Keep away from heat, sparks and open flames. Do not mix strong acids, strong oxidizers, hydrogen peroxide in solder paste.
Waste disposal method	Contact a licensed chemical waste disposal contractor for disposal requirements.

Section VIII—Control measures /

Respiratory protection	A NIOSH approved dust/fume respirator should be worn where applicable limits may be exceeded.
Ventilation	Provide sufficient mechanical (general and/or local exhaust) ventilation at soldering area to maintain exposure below PEL & TLV.
Protective gloves	Use plastic or rubber gloves and aprons where necessary to avoid skin contact.
Eye protection	Safety glasses or goggles should be worn in areas where splashing may occur.
Other protective clothing or equipment	Not required
Work/Hygienic practices	Do not touch solder paste bare-handed. Wash thoroughly soap and water if contaminated by the solder paste. Do not inhale the vapor during reflow. Wash hands and rinse mouth before meals and soldering.

※NA:Not Applicable NE:Not Established