

## **SAFETY DATA SHEET**

Product Name	SDS No.	Revision	Date	Page
<b>ECOSOLDER BAR M24AP</b>	SD8.2.2-111	1.1	13 / 03 / 2019	1 / 6

### **SECTION 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND THE SUPPLIER**

Product Name : **ECOSOLDER BAR M24AP**  
 Manufacturer's Name and Address : Senju (Malaysia) Sdn Bhd  
 Lot 36, Persiaran Sabak Bernam, Hicom Industrial Area,  
 Section 26, 40000 Shah Alam, Selangor Darul Ehsan.  
 Telephone Number : 603-51912227  
 Fax Number : 603-51912428  
 Emergency Telephone Number : 603-51912227  
 Recommended use and restrictions on use : General industrial products  
 Supply form : Bar

### **SECTION 2: HAZARDS IDENTIFICATION**

#### **GHS CLASSIFICATION**

Flammable Liquids	: No classification
Acute toxicity	
Oral	: Not classified
Dermal	: Classification not possible
Inhalation (Gases)	: No classification
Inhalation (Vapours)	: No classification
Inhalation (Dusts/Mists)	: Classification not possible
Skin corrosion/Irritation	: Classification not possible
Serious eye damage/eye irritation	: Classification not possible
Sensitization	
Respiratory	: Classification not possible
Skin	: Classification not possible
Germ cell mutagenicity	: Classification not possible
Carcinogenicity	: Not classified
Reproductive toxicity	: Classification not possible
Specific target organ systemic toxicity (single exposure)	: Classification not possible
Specific target organ systemic toxicity (repeated exposure)	: Category 1 (lungs)
Hazardous to aquatic environment	
Acute hazard	: Classification not possible
Long-term hazard	: Not classified
Hazardous to the Ozone layer	: Classification not possible

#### **GHS LABEL ELEMENT**



#### **HAZARD STATEMENT**

Cause damage to organs (lungs) through prolonged or repeated exposure

#### **PRECAUTIONARY STATEMENTS**

##### **<Prevention>**

Do not eat, drink or smoke when using this product  
 Wash hands thoroughly after handling  
 Do not breathe dust/fume/gas/mist/vapours/spray

**SAFETY DATA SHEET**

Product Name	SDS No.	Revision	Date	Page
<b>ECOSOLDER BAR M24AP</b>	SD8.2.2-111	1.1	13 / 03 / 2019	2 / 6

## &lt;Response&gt;

Get medical advice/attention if you feel unwell

## &lt;Disposal&gt;

Dispose of contents/container in accordance with local/regional/national/international regulations

Other hazards which do not result in classification by the GHS

Hazards : Unknown  
Environment effects : Unknown  
Physical and chemical hazards : Under normal handling, the risk of fire is low  
Important symptoms : No information available  
Summary of assumed emergency : No information available  
National/regional information : Not applicable to the criteria for classification

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Classification of the chemical substance or/mixture: Mixture

Chemical name/common name: ECOSOLDER BAR M24AP

Chemical formula: Tin (Sn)

Copper (Cu)

Concentration/concentration range:

Chemical name or common name	Abbreviation	Content (wt%)	CAS No.
Tin	--	95 ~ 100%	7440-31-5
Copper	--	0.1 ~ 3%	7440-50-8

Impurities and stabilizing additives which contribute to the classification of GHS: No information available

**SECTION 4: FIRST-AID MEASURES**

## IF INHALED:

Gargle sufficiently, and if it is irritating, receive the treatment of a doctor.

## IF ON SKIN:

Wash the portion that came into contact with the product by using soap

## IF IN EYES:

Wash with clean water for several minutes, and after washing thoroughly, in case the eyes are injured, or in case there is irritation, receive the treatment of a doctor as required.

## IF SWALLOWED:

Wash inside of the mouth thoroughly with water and receive the treatment of a doctor as required.

Most important effects and symptoms:

No information available

Protection for first-aid responders:

No information available

Note to physician:

No information available

**SECTION 5: FIRE-FIGHTING MEASURES**

Extinguishing media

: Dry chemical or disaster preventive sand

Unsuitable extinguishing media

: Water

Specific hazards arising from the chemical if burning

: There is a risk of generation of irritating fume or toxic fume by fire

Specific fire-fighting measures

: Move mobile container immediately to safe place.  
Spray water to the surrounding facilities and cool them.

Special protective equipment for fire fighter

: Depending on the situation, protective equipment such as chemical cartridge respirator for fire-fighting and protective clothing shall be worn

**SAFETY DATA SHEET**

Product Name	SDS No.	Revision	Date	Page
<b>ECOSOLDER BAR M24AP</b>	SD8.2.2-111	1.1	13 / 03 / 2019	3 / 6

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures:

Wear protective gloves

Environmental precautions:

Pay attention so that the product does not flow into the sewage or public water area

Methods and materials for containment and cleaning up:

Sweep up the scattered product and recover into a suitable container

Prevention of secondary disaster:

No information available

**SECTION 7: HANDLING AND STORAGE****HANDLING**

Appropriate engineering controls:

Carry out equipment countermeasure and have on protective equipment following term of

「SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION」

Local exhaust /Total ventilation:

Provide local ventilation or general ventilation following term of

「SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION」

General precautions:

No information available

Precautions for safe handling:

See the disclaimer of 「SECTION 2. HAZARD IDENTIFICATION」

**STORAGE**

Appropriate engineering controls:

No information available

Appropriate storage conditions:

Avoid the following to prevent thermal storage and deterioration: (1) Direct sunlight, (2) High temperature and high humidity, and (3) Outdoor storage. Even when storing the product indoors, avoid places near incandescent lamps, mercury lamps, or other lighting equipment that will emit heat or strong ultraviolet rays. Carefully store the product and avoid piling them too high in order to prevent toppling.

Safe containers and packaging materials:

Appropriate containers and packaging materials

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering controls:

Install equipment to wash the hands and eyes nearby

Handling place shall be well ventilated

In case dust and fumes generate, install a local air exhauster

Tolerable concentration:

Tin	2(metal)mg/m <sup>3</sup>	TWA	ACGIH
Tin	2(oxide, inorganic compounds)mg/m <sup>3</sup>	TWA	ACGIH
Tin	2(inorganic compounds)mg/m <sup>3</sup>	TWA	OSHA
Copper	1(dust, mist)mg/m <sup>3</sup>	TWA	ACGIH
Copper	0.2(fume)mg/m <sup>3</sup>	TWA	ACGIH

## **SAFETY DATA SHEET**

Product Name	SDS No.	Revision	Date	Page
<b>ECOSOLDER BAR M24AP</b>	SD8.2.2-111	1.1	13 / 03 / 2019	4 / 6

Copper	1(dust, mist)mg/m <sup>3</sup>	TWA	OSHA
Copper	0.1(fume)mg/m <sup>3</sup>	TWA	OSHA

**Personal protective equipment**
**Respiratory protection:**

Use a protective mask as required

**Hand protective equipment:**

Use protective gloves as required

**Eyes / Face Protection:**

Wear protective glasses as required

**Skin and personal protective equipment:**

Use work clothes and safety shoes as required

**Appropriate hygiene measures:**

After work, wash hands well and gargle before smoking, eating, etc.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Shape	: Solid (metal)
Colour	: Silver-grey
Odour(Odour threshold)	: Odorless
pH	: Not applicable
Melting point/Freezing point	: Product 227-250°C
Boiling point	: Tin 2507°C
	: Copper 2324°C
Initial boiling point	: Not applicable
Boiling range	: Not applicable
Flash point	: Not applicable
Autogenous ignition temperature	: Not applicable
Flammability (solid, gas)	: Not applicable
Lower flammability or explosive limits	: Not applicable
Upper flammability or explosive limits	: Not applicable
Vapor pressure	: Tin 1Pa(1224°C)
	: Copper 0.073Pa(1083°C)
Vapor density	: Not applicable
Evaporation rate	: Not applicable
Specific gravity (Relative density)	: Product 7.4(Specific gravity)
Solubility	: Not applicable
Partition coefficient; n-octanol/water	: Copper -0.57
Decomposition temperature	: Not applicable
Other information	: No information available

### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity	: No information available
Chemical stability	: Stable at ordinary storage and handling conditions.
Possibility of hazardous reactions	: There is fear of reacting with strong acid or strong alkali.
Conditions to avoid	: Diffusion of dust
Incompatible materials	: Strong acid or strong alkali
Hazardous decomposition products	: No information available

## **SAFETY DATA SHEET**

Product Name	SDS No.	Revision	Date	Page
<b>ECOSOLDER BAR M24AP</b>	SD8.2.2-111	1.1	13 / 03 / 2019	5 / 6

### **SECTION 11: TOXICOLOGICAL INFORMATION**

Acute toxicity	: No information available
Skin corrosion/Irritation	: No information available
Serious eye damage/eye irritation	: No information available
Respiratory sensitization/skin sensitization	: No information available
Mutagenicity (Germ cell mutagenicity)	: No information available
Carcinogenicity	: No information available
Reproductive toxicity	: No information available
Specific target organ systemic toxicity - Single exposure	: Copper – May cause respiratory irritation
Specific target organ systemic toxicity - Repeated exposure	: Tin - Causes damage to organ (lung) through prolonged or repeated exposure Copper – Causes damage to organ (liver) through prolonged or repeated exposure
Aspiration hazard	: No information available

### **SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity	
Fish	: Copper      May cause long lasting harmful effects to aquatic life
Crustacea	: Copper      May cause long lasting harmful effects to aquatic life
Algae	: No information available
Persistence/Degradability	: No information available
Bioaccumulative Potential	: No information available
Mobility in soil	: No information available
Other adverse effects	: Because of many unknown items, do not discard in general environment

### **SECTION 13: DISPOSAL CONSIDERATION**

Commit disposal to special waste disposal contractors approved Government of Malaysia.  
As for containers that have been used, remove the contents completely, and commit disposal to industrial waste disposal contractor that have received approval from the municipalities.

### **SECTION 14: TRANSPORT INFORMATION**

International regulations	
UN classification	: Not applicable to the criteria for classification
UN number	: Not applicable to the criteria for classification
UN proper shipping name	: Not applicable to the criteria for classification
Packing group	: Not applicable to the criteria for classification
Marine pollutant	: Not applicable to the criteria for classification
Domestic regulations	: Refer to laws and regulation that are applied
Special precautions	: No information available
Special precautions and conditions which a user needs to comply with transport:	
In case of bulk load, in order to prevent load collapse, keep the stack low or fix the goods in position.	
In order to prevent mingling of foreign matter, water leakage, and direct rays of the sun, cover the goods with a sheet.	
Emergency response guideline number	: No information

### **SECTION 15: REGULATORY INFORMATION**

<Product>

Under Occupational Safety and Health Act 1994 – Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013



**SAFETY DATA SHEET**

Product Name	SDS No.	Revision	Date	Page
<b>ECOSOLDER BAR M24AP</b>	SD8.2.2-111	1.1	13 / 03 / 2019	6 / 6

**SECTION 16: OTHER INFORMATION**

References

<Product>

SAFETY DATA SHEET of providing companies  
Information on GHS-model SDS by Japan Advanced Information Center of Safety and Health  
GHS classification results by National Institute of Technology and Evaluation