


**1. Product and Company Identification**

Product chemical name	: Anti-Seize Liquid for Soldering Iron Tips and Nozzles : BS-H20B		
Manufacturer Information	: TAIYO ELECTRIC IND.CO.,LTD.	Name of section	: Engineering department
Address	: 2-16-8 Yamate Fukuyama Hiroshima 720-0092		
Tel	: 084-951-1512	FAX	: 084-951-9531
		E-mail	: info@goot.co.jp
Issue date	: 1993-11-4	Revised date	: 2010-12-8

**2. Hazards Identification**

<GHS Classification>	
Specific target organs/systemic toxicity following single exposure	: Category 3 (respiratory irritation)
GHS LABEL ELEMENTS	
	
<Signal Word> Warning	
<Hazard and toxicity information> Respiratory irritation	
【Precautionary Statements】	
<ul style="list-style-type: none"> <li>• Use only in the well-ventilated areas or outside.</li> <li>• Do not breathe dust/fume/gas/mist/ vapors /spray</li> </ul>	
【First Aid Measures】	
<ul style="list-style-type: none"> <li>• Inhalation : Remove person to fresh air. Have a person keep at rest in a position comfortable for breathing. Refer for medical attention.</li> </ul>	
【Storage】	
<ul style="list-style-type: none"> <li>• Store in well-ventilated place. Keep container tightly closed.</li> <li>• Store locked up.</li> </ul>	
【Disposal】	
<ul style="list-style-type: none"> <li>• Dispose of contents/container in accordance with local/regional/international regulations</li> </ul>	

**3. Composition / Information on Ingredients**

Substance / Mixture	: Mixture			
Chemical name (Generic name)	: Flux			
<Concentration or Concentration range >				
Component	Percent	Chemical formula	Chemical Substances Control Law No.	CAS No.
Water	70-80%	Confidential	N/A	7732-18-5
Boron Nitride	25%	Confidential	1-68	10043-11-5
Mg-Al Silicate	Less than 5%	Confidential	N/A	12173-47-6
<Legally relevant component> in Japan				

Component	The Industrial Safety and Health Law	PRTR Law
Water	N/A	N/A
Boron Nitride	N/A	Class 1 specified chemical substance
Mg-Al Silicate	N/A	N/A

#### 4. First aid measures

INHALATION	: Remove person to fresh air. Keep at rest in a position comfortable for breathing. Seek medical attention.
SKIN CONTACT	: Remove / take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs, seek medical attention immediately.
EYE CONTACT	: Rinse cautiously with water for more than 15 minutes. Seek medical attention as soon as possible. Hold the eyelids open and pour water slowly over the eyeballs at the inner corners, letting the water run out of the outer corners. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention surely even though no symptoms occur.
INGESTION	: Do not induce vomiting. Rinse mouth, and seek medical attention immediately.
The most important signs and symptoms	: Nothing in particular
Personal protection for the first aid	: Proper protective equipment (Protective glass, Protective mask, Protective gloves)

#### 5. Fire Fighting Measures

Extinguishing Media	: This product is incombustibility. Use proper extinguishing media that meet to the fire around.
Unsuitable Extinguishing Media	: Not known
Specific hazards	: Not known
Specific fire fighting	: Move the products to safe place in case of fire around. If the product can't be moved, cool it by pouring water so as not to cause damage carefully. Ammonia gas will occur by high temperature.
Personal protection for the fire	: Not known

#### 6. Accidental Release Measures

Personal Precautions and Protective Equipment	: Evacuate from contaminated area to prevent from contact and inhalation. : Wear protective glasses, protective mask and protective gloves when in handling.
Environmental Precautions	: Prevent the spilled contents from running off into rivers.
Recovery methods and equipment, neutralization, containment and clean	: Absorb spilled contents in the dry sand or other incombustibles, and collect in sealed container. : Dispose of contamination and waste in accordance with relevant laws.
Prevention of Secondary Hazards	: Not known

#### 7. Handling and Storage

<b>【Handling】</b>	
Engineering measures	: Handle in a well-ventilated place. : Do not breathe as much as possible. Prevent eyes, skin, and mucosa from contact.
Handling Precautions for Safety	: Do not use the product for any purpose other than anti-seizing of tips/nozzles. : Do not use it to human body. : Follow other precautions indicated on labels. : Tightly closed after use. : Do not apply impact to the container. Do not also drop it.
<b>【Storage】</b>	
Engineering measures	: Keep in the original container. : Do not use metal container because it will cause corrosion.
Storage condition	: Keep out from reach of children. : Close the cap tightly and store it : Follow other precautions indicated on labels. : Tightly close and store in a well-ventilated and cool place. : Store locked up.
Hazardous substance by mixing	: Strong oxidizing materials.
Container package material	: Plastic container (the original container when selling)

### 8. Exposure Controls / Personal Protection

Facilities measures	: Install ordinary ventilation equipment. Requires the installation of local exhaust ventilation equipment in case of exceeding the allowable limit.
Control parameter	: Not established
Acceptable parameter	: ACGIH TLV - TWA 10mg/m <sup>3</sup> (Total dust) Boron Nitride : ACGIH TLV - TWA 10mg/m <sup>3</sup> (Total dust) Mg-Al Silicate
<b>【Protective equipment】</b>	
Respiratory	: Dust proof mask
Hands	: Protective gloves (Rubber gloves)
Eyes	: Protective glasses (side shield glasses or goggle)
Skin and body	: Wear long the sleeve working wear, the protective apron, and the protective boots if needed.
Sanitation	: After work, wash your hands well, and gargle.

### 9. Physical & Chemical Properties

Appearance	: White liquid
Odor	: Odorless
PH	: 7
Melting point Hardening point	: Not known
Boiling point	: Not known
Flash point	: None
Spontaneous combustibility	: None
Upper explosion limit	: None
Lower explosion limit	: None
Vapour pressure	: Not known
Vapor density	: Not known
Specific Gravity	: 1.25 (at 20°C)
Viscosity	: Not known

Solubility in water : Not known

**10. Chemical Stability & Reactivity Information**

Chemical Stability	: Stable in ambient temperature
Hazardous Reaction Potential	: No hazardous reaction potential in regular condition
Conditions to Avoid	: There is a possibility that nitrogen oxides are produced when contacting strong oxidant. : There is a possibility that ammonia is produced by Hydrolyzing in high temperature.
Incompatible Products	: Not known
Hazardous Decomposition Products	: Nitrogen oxide and boron oxide, boric acid, and ammonia is produced by thermal decomposition.

**11. Toxicological Information**

Acute Toxicity	Contents	Oral (Rat) LD50M	Oral (Rabbit) LD50S	Inhalation (Rat) LD50R
	Water	N/A	N/A	N/A
	Boron Nitride	No data	No data	No data
	Mg-Al Silicate	No data	No data	No data
Skin Corrosion	: Not known			
Skin Irritation	: Not known			
Eye Critical Damage/ Irritation	: Not known			
Respiratory Organs Sensitization	: Not known			
Skin Sensitization	: Not known			
Generative Cell Mutagenicity	: Not known			
Carcinogenicity	: Not known			
Reproductive Toxicity	: Not known			
Specified Target Organ General Toxicity: Single Exposure	: Category 3 (Boron Nitride, Mg-Al Silicate)			
Specified Target Organ General Toxicity: Repeated Exposure	: Not known			

**12. Ecological Information**

Acute Aquatic Toxicity	: None known
Chronic Aquatic Toxicity	: None known

**13. Disposal Considerations**

Dispose in accordance with local/regional/national/international regulations.
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**14. Transportation Information**

【International Regulation】
UN classification Class : N/A

UN No.	: N/A
UN transport name	N/A
IMDG	N/A
【Regulation in your country】	: Follow all regulation in your country.
Special Safe Precautions	: Blocking the direct sunlight. Check damage, corrosion, leakage and others before transport. : Make sure to prevent from overturning, falling, load shifting. : Transport with packing and marking in accordance with relevant regulations

**15. Regulatory Information**

Follow all regulation in your country.	
RoHS	: Compliance ( regulated substances are not included)

**16. Other information**

The information herein is given in good faith, but not a warranty. Final determination of suitability any of 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, which exist.