#### 1. IDENTIFICATION OF THE SUBSTANCE AND THE SUPPLIER

Product : Tip refresher BS-2

identifier

Manufacturer : TAIYO ELECTRIC IND.CO.,LTD. Section : Engineering department

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#### 2.HAZARD IDENTIFICATION

<GHS classification>

Flammable liquids : No classification Acute toxicity(Oral) : Not classified Acute toxicity(Dermal) : Not classified Inhalation(Gases) : No classification : No classification Inhalation(Vapors) Inhalation(Dusts/Mists) : Not classified Skin corrosion/Irritation : Not classified Serious eye damage/eye irritation : Not classified

Sensitization(Respiratory) : Classification not possible Sensitization(Skin) : Classification not possible

Germ cell mutagenicity: : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ systemic : Not classified

toxicity(Single exposure)

Specific target organ systemic : Category1 (lungs)

toxicity(Repeated exposure)
Hazardous to the aquatic

environment

Acute hazard : Classification not possible
Chronic hazard : Classification not possible

< GHS label elements >



< Hazard Statement >

Danger

- < Hazard and toxicity information >
- •Cause damage to organs(lungs)through prolonged or repeated exposure.
- < Precautionary statement >

# [Prevention]

- •Do not eat, drink or smoke when using this product.
- ·Wash hands thoroughly after handling.
- •Do not breathe dust/fume/gas/mist/vapors/spray.

# [Response]

•Get medical advice/ attention, if you feel unwell.

# [Storage]

Avoid the direct rays of the sun and store in tightly sealed containers at a well-ventilated cool place.

# [Disposal]

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

### 3.COMPOSITION / INFORMATION ON INGREDIENTS

Classification of the

: Mixture

chemical substance

or/mixture

Chemical name or

: Tip refresher

common name:

# <Concentration or Concentration range>

Chemical name	Percent (wt%)	Chemical formula	Law Concerning the	CAS No.
			Examination and	
			Regulation of	
			Manufacturer etc. of	
			Chemical Substances	
Ammonium	60 - 75%	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	1-379	7722-76-1
dihydrogen				
phosphate				
Tin	20 - 40%	Sn	Not applicable	7440-31-5
Paraffin wax	1 - 6%	C <sub>n</sub> H <sub>2n+2</sub> (C=20-35)	8-414	8002-74-2

# <Legally relevant components>

Chemical name	Industrial Safety and Hygiene Law	PRTR
	Enforcement Order Article 18-2	
Ammonium dihydrogen	Not applicable	Not applicable
phosphate		
Tin	Substances to be notified #322	Not applicable
Paraffin wax	Substances to be notified #170	Not applicable

#### **4.FIRST-AID MEASURES**

IF INHALED: : Remove victim to fresh air. Get medical advice/attention.

IF ON SKIN :Wash with plenty of soap and water. Get medical advice/attention.

IFIN EYES : Rinse cautiously with water for several minutes. Get immediate medical

advice/attention.

IF SWALLOWED : Rinse mouth. Do not induce vomiting. Get immediate medical

advice/attention.

Most important effects and

: No information available

symptoms:

Protection for first-aid

: No information available

responders

Note to physician : No information available

### 5.FIRE-FIGHTING MEASURES

Extinguishing media: : Dry chemical or disaster preventive sand

Unsuitable extinguishing :Water

media:

Specific hazards arising :Black smoke, the carbon monoxide, and other toxic gases are generated by

from the chemical if pyrolysis and the incomplete combustion, and there is a possibility of danger

burning by these inhalations.

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

Specific firefighting : Move mobile container immediately to safe place.

measures : Spray water to the surrounding facilities and cool them.

: Fire-fighting shall be conducted from the windward of the fire as much as

possible.

Special protective : Depending on the situation, protective equipment such as chemical cartridge

equipment for fire fighter respirator for fire-fighting and protective clothing shall be worn.

### **6.ACCIDENTAL RELEASE MEASURES**

Personal precautions, :Wear protective gloves.

protective equipment

and emergency

procedures

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

precautions area.

Methods and materials :Wipe off most of the containment with waste cloth and the like, then wipe off

containment and the residual with alcohol. Sweep up the residue, and store in a suitable

cleaning up container. Prevention of secondary : Use safe tools which will not generate sparks.

disaster

#### 7.HANDLING AND STORAGE

[Handling]

Appropriate : Carry out equipment countermeasure and have on protective equipment

engineering controls following term of \( \gamma \) EXPOSURE CONTROL/PERSONAL PROTECTION \( \gamma \)

Local exhaust/Total : Provide local ventilation or general ventilation following term of 8 EXPOSURE

ventilation CONTROL/PERSONAL PROTECTION J.

General precautions : Make efforts to keep the working place tidy and in order, and keep away from

fire.

Precautions for safe

handling

:See the disclaimer of \( \frac{1}{2} \) HAZARD IDENTIFICATION \( \text{J}. \)

[Storage]

conditions

Appropriate : No information available.

engineering controls

Appropriate storage

ventilated cool place.

Safe containers and

: Appropriate containers and packaging materials.

packaging materials

## **8.EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering controls : Install equipment to wash the hands and eyes nearby.

: Handling place shall be well ventilated.

: Volatile matter may be generated during the soldering work, therefore use a

: Avoid the direct rays of the sun and store in tightly sealed containers at a well-

local ventilator as necessary.

Exposure limit : Not established.

Tolerable concentration Tin

Tin	2(metal)mg/m3	TWA	ACGIH
Tin	2(oxide inorganic	TWA	ACGIH
	compounds)mg/m3		
Paraffin wax	2mg/m3	TWA	ACGIH

[Personal protective

equipment]

Respiratory protection : Use a protective mask as required.

Hand protective : Use protective gloves.

equipment

Eyes/Face Protection : Wear protective glasses as required.

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Skin and personal

: Use work clothes and safety shoes as required.

protective equipment

Appropriate hygiene

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

measures

### 9.PHYSICAL AND CHEMICAL PROPERTIES

Shape, color : Paste form, Gray

Odor/Odor threshold : Faint ammonia odor / Not applicable

PH: Not applicable

Melting point / Freezing : [Product] 217-220°C (solder) [Ammonium dihydrogen phosphate] 190°C

point

Boiling point :[Tin] 2507°C [Paraffin wax] 322°C

Initial boiling point and : Not applicable

boiling range

Flash point : Paraffin wax 199°C
Autogenous ignition : Paraffin wax 245°C

temperature

Flammability (solid, gas) : Not applicable

Lower flammability or : Paraffin wax 0.6Vol%

explosive limits

Upper flammability or : Paraffin wax 6.5Vol%

explosive limits

Vapor pressure : Tin 1Pa (1224°C)

Vapor density(air=1) : Not applicable

Evaporation rate : Not applicable

Specific gravity (Relative : [Product] 4 (Specific gravity)

density) [Ammonium dihydrogen phosphate] 8(Specific gravity)

[Paraffin wax] 0.9(Specific gravity)

Solubility : Not applicable
Partition coefficient; : [Paraffin wax] 6

n-octanol/water

Decomposition : Not applicable

temperature

# 10.STABILITY AND REACTIVITY

Chemical stability : Stable at ordinary storage and handling conditions.

Possibility of hazardous : There is fear of reacting with strong acid o strong alkali

reactions

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: Avoid contact with direct rays of the sun and high temperature body other than

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soldering purpose.

Incompatible materials

Conditions to avoid

: Strong acid or strong alkali.

Hazardous

: It decomposes by burning or high temperature, and there is possibility of

decomposition products

generating toxic gases (black smoke, carbon monoxide, etc.)

#### 11.TOXICOLOGICAL INFORMATION

Acute toxicity

Ammonium	}4640mg/kg	Hypodermic rabbit	RTECS
dihydrogen phosphate		(LD50)	
Paraffin wax	>5000mg/kg	Oral rat (LD50)	IUCLID
Paraffin wax	}3600mg/kg	Hypodermic rabbit	IUCLID
		(LD50)	

Skin corrosion/1rritation

: No information available

Serious eye

: No information available

damage/eye irritation

Respiratory sensitization

: No information available

Skin sensitization

: No information available : No information available

Mutagenicity (Germ cell

mutagenicity)

Carcinogenicity

Reproductive toxicity

: No information available : No information available

Specific target organ

: No information available

systemic toxicity - Single

exposure

Specific target organ

:[Tin]Causes damage to organ(lung)through prolonged or repeated exposure

systemic toxicity -

Repeated exposure

# 12.ECOLOGICAL INFORMATION

Ecotoxicity •Fish : No information available

Ecotoxicity · Crustacean : No information available

Ecotoxicity · Algae : No information available

Persistence : No information available

/Degradability

Bio accumulative : No information available

Potential

Mobility in soil : No information available

Other adverse effects : Because of many unknown items do not discard in general environment.

### 13.DISPOSAL CONSIDERATIONS

Residual waste : Commit disposal special waste disposal contractors approved by the

Metropolitan, Hokkaido ,or Prefectural Governors in case of Japan.

Contaminated : 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.

#### 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 : Not applicable to the criteria for classification.

name

containers

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

: No information available Special precautions

Special precautions and

conditions which a user

needs to comply with

transport

:Load so that there will be no tumbling, dropping no damaging and securely

conduct load collapse prevention.

### 15.REGULATORY INFORMATION

Follow all regulation in your country.

Industrial Safety and : Substances to be notified, which are specified in Law article 57-2

Health Act in Japan Cabinet order number 18-2

[Tin]#322 [Paraffin wax]#170

PRTR in Japan : Not applicable

RoHS in EU : Compliance ( regulated substances are not included)

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Occupation safety and health act	:[Ammonium dihydrogen phosphate] Not applicable	
in Korea	:[Paraffin wax] Exposure standard-setting substance	
	:[Tin] The measured substance at work environment	
	(the measurement cycle: every 6 months)	
	Controlled toxic substance	
	Special health diagnosis target substance	
	(the diagnosis target cycle: every 12 months)	
	Exposure standard-setting substance	
Toxic Chemicals Control Act in	: Not applicable	
Korea		
Safety Control of Dangerous	:[Ammonium dihydrogen phosphate] [Paraffin wax] Not applica	ble
Substances Act in Korea	:[Tin] Class 2 metal	
The Waste Control Act in Korea	:[Ammonium dihydrogen phosphate] [Paraffin wax] Specified w	/aste
	:[Tin] Not applicable	
Persistent Organic Pollutants	: Not applicable	
Control Act in Korea		

### 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.