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1. IDENTIFICATION OF THE SUBSTANCE AND THE SUPPLIER

Product	:Tip refresher BS-2			
identifier				
Manufacturer	: TAIYO ELECTRIC I	ND.CO.,LTD.	Section	: Engineering department
Address	:2-16-8 Yamate, Fuk	uyama, Hiroshim	na JAPAN 720-009	02
Tel.	:084-951-1512	FAX:084-951-9	9531	E-mail:info@goot.co.jp
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2.HAZARD IDENTIFICATION

E.IIAEARD IDERTIFICATION	
<ghs classification=""></ghs>	
Flammable liquids	: No classification
Acute toxicity(Oral)	: Not classified
Acute toxicity(Dermal)	: Not classified
Inhalation(Gases)	: No classification
Inhalation(Vapors)	: No classification
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	

SDS (Safety Data Sheet)

< 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 ₄ H ₂ PO ₄	1-379	7722-76-1
dihydrogen				
phosphate				
Tin	20 - 40%	Sn	Not applicable	7440-31-5
Paraffin wax	1 - 6%	C _n H _{2n+2} (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 symptoms:	: No information available
Protection for first-aid responders	: No information available
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
for containment and	the residual with alcohol. Sweep up the residue, and store in a suitable
cleaning up	container.

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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 \lceil 8 EXPOSURE CONTROL/PERSONAL PROTECTION J
Local exhaust/Total	: Provide local ventilation or general ventilation following term of $^{\Gamma}8$ EXPOSURE
ventilation	CONTROL/PERSONAL PROTECTIONJ.
General precautions	Make efforts to keep the working place tidy and in order, and keep away from fire.
Precautions for safe	: See the disclaimer of 「2 HAZARD IDENTIFICATION」.
handling	
[Storage]	
Appropriate	: No information available.
engineering controls	
Appropriate storage	Avoid the direct rays of the sun and store in tightly sealed containers at a well-
conditions	ventilated cool place.
Safe containers and	: Appropriate containers and packaging materials $_{\circ}$
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 solderin	g work, tl	nerefore use a
	local ventilator as ne	cessary.		
Exposure limit	:Not established.			
Tolerable concentration	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 mas	sk as required.		
Hand protective	: Use protective glove	S.		
equipment				
Eyes/Face Protection	: Wear protective glas	ses as required.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Shape, color	: Paste form, Gray
Odor/Odor threshold	: Faint ammonia odor / Not applicable
РН	:Not applicable
Melting point / Freezing	: [Product] 217-220°C (solder) [Ammonium dihydrogen phosphate] 190°C
point	
Boiling point	: [Tin] 2507ºC [Paraffin wax] 322ºC
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 ^Γ strong alkali
reactions	

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Conditions to avoid	Conditions to avoid : Avoid contact with direct rays of the sun and high temperature body other th	
	soldering purpose.	
Incompatible materials	: 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			
Mutagenicity (Germ cell	: No information available			
mutagenicity)				
Carcinogenicity	: No information available			
Reproductive toxicity	: No information available			
Specific target organ	: No information available			
systemic toxicity - Single				
exposure				
Specific target organ	:[Tin]Causes damage to o	rgan(lung)throug	h prolonged or repeat	ed 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
containers	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	
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	: Load so that there will be no tumbling, dropping no damaging and securely
conditions which a user	conduct load collapse prevention.
needs to comply with	
transport	

15.REGULATORY INFORMATION

Follow all regulation in your country.		
Industrial Safety and Health Act in Japan	: Substances to be notified, which are specified in Law article 57-2 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 applicable
Substances Act in Korea	: [Tin] Class 2 metal
The Waste Control Act in Korea	:[Ammonium dihydrogen phosphate] [Paraffin wax] Specified waste
	: [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.