

SAFETY DATA SHEET
Asahi Conductive Paste
Copper Particle Paste CPP-F72C27R
SDS #: ESP5-1-0
Date of Preparation: August 2020

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

1.1 Product Details:

Product Name : Asahi Copper Particle Paste CPP-F72C27R
Trade Name : CPP-F72C27R
Use : Copper Particle Paste may be used in screen printing.

1.2 Company's Identification:

Manufacturer's Name and Address : Singapore Asahi Chemical & Solder
Industries Pte Ltd
47 Pandan Road
Singapore 609288

Telephone : (65) 6262-1616
Facsimile : (65) 6261-6311

1.3 Contact Point:

Designation : Chemist
Emergency Telephone Number: (65) 6262-1616

SECTION 2: HAZARD IDENTIFICATION

GHS Classification

Acute Toxic
Dermal : Classification 5
Sensitization – Skin : Classification 1
Eye damage/irritation : Classification 2B
Specific target organ toxicity
Single exposure: : Classification 3 (respiratory system)
Aspiration hazard : Category 2

GHS Label Elements:



GHS Signal Word: Warning

GHS Hazard Statement: H305 May be harmful if swallowed and enters airways
H313 May be harmful in contact with skin
H317 May cause an allergic skin reaction
H320 Causes eye irritation
H335 May cause respiratory irritation

GHS Precautionary Statement:

Prevention

P261 Avoid breathing dust, fume, gas, mist, vapours and spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves, eyes and face protections.

Response

P301, P312, P330 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
P303, P361, P353 IF ON SKIN (or hair): Remove or take off immediately all contaminated clothing. Rinse skin with water or shower.
P305, P351, P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313, P332, P337 If eye or skin irritation persists: Get medical advice/attention.
P331 Do NOT induce vomiting.

Disposal

P501 Dispose of contents or container to appropriate waste site in accordance with local and national regulations.

Environment Effects: No effect on environment

SECTION 3: COMPOSITION/INFORMATION ON MATERIAL

Chemical Name	CAS No.	%	OSHA PEL(mg/m ³)	ACGIH TLY (mg/m ³)	Other Limits Recommended
Copper (Cu)	7440-50-8	50 – 80	Fumes 0.2 Dust/Mist 1	0.2 1	-
Silver (Ag)	7440-22-4	0 – 10	0.01 _(powder/dust)	0.01 _(powder/dust)	-
Binder	Proprietary	20 - 40	NE	NE	-
Total		100			

SECTION 4: FIRST AID MEASURES

Ingestion : Wash your mouth well with water and gargle. Get medical attention if necessary
Eye Contact : Flush eyes with plenty of water immediately for at 15 minutes. Seek medical attention.
Skin Contact : Wash thoroughly with soap and warm water.

Inhalation : Blow nose and gargle. If signs/ symptoms occurs, remove person to fresh air.
If signs / symptoms continue, call a physician

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media : Water, Dry chemical, CO₂, etc
Specified method : In case of a small scale fire, use water, dry chemicals or CO₂. In case of large scale fire, wear protective gas mask and use water spray method.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Health measures : Put on dust protection mask, goggle and gloves if necessary.
Environmental measures : In case of large release, do not release to a sewer or natural environment.
Removal method: Remove by vacuuming or mop with a cloth, and then wash.

SECTION 7: HANDLING AND STORAGE

Handling : Wash hand thoroughly with soap and water prior to eating, drinking or smoking. Do not smoke while soldering. Avoid inhalation of vapors and contact with skin and eyes. Observe good industrial practices.
Storage : Store in a cool environment away from oxidizing agents and direct sunlight..

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Engineering Measures : Maintain general or local exhaust ventilation to meet exposure limit requirements.
Personal Protection : Operator should be protected from fumes
PROTECTIVE GLOVES : Impervious rubber
EYE PROTECTION : Safety glasses

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Copperish paste
Odor : Mild Solvent Odor
Solubility in water: : Insoluble in water
Boiling Point(°C) : Copper: 2562 °C ; Silver 2155°C
Melting Point(°C) : Copper: 1085 °C ; Silver 961°C
Vapor Pressure(mm of Hg at 20°C) : NA
Vapour Density (air=1) : NA
Percentage Volatiles (by Volume) : NA
Evaporation Rate (butyl acetate=1) : NA
Specific Gravity (water=1 at 25°C) : NA
Flash Point (°C) : None
Binder 300 – 400°C

Combustible : Copper/Silver incombustible
Binder combustible

SECTION 10: PHYSICAL HAZARDS (STABILITY AND REACTIVITY)

Condition to avoid : High temperature and high humidity
Stability : Stable
Decomposition products : Unknown
Hazardous Reaction : Silver reacts with acetylene to form sensitive chemical compound, reacts with acid to cause high heat, and reacts to condensed hydrogen peroxide to form gaseous oxygen. Dry silver clay reacts with ammonia to form explosive compound.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity data : None
Carcinogenicity : Not listed
Skin Corrosion : Possible irritation to the skin and mucous membrane.
Inhalation : Possible irritation of upper respiratory including soreness of nose and throat, coughing and sneezing.

SECTION 12: ECOLOGICAL INFORMATION

Mobility & Bioaccumulation : May release in dust form in the air.
Biodegradability : Non biodegradable
Aquatic Toxicity : N/D

SECTION 13: DISPOSAL INFORMATION

Dispose according to federal, state and local regulations. This product is suitable for recovery following appropriate recovery routes or methods. If in doubt, contact Singapore Asahi.

SECTION 14: TRANSPORT INFORMATION

UN Number

ADR/RID:- IMDG:- IATA-DGR:-

UN proper shipping name

ADR/RID : Not dangerous goods
IMDG : Not dangerous goods
IATA-DGR : Not dangerous goods

Transport hazard class

ADR/RID:- IMDG:- IATA-DGR:-

Packaging group

ADR/RID:- IMDG:- IATA-DGR:-

Special shipping instruction

No data available

SECTION 15: REGULATORY INFORMATION

Safety, health and environment regulations/legislation specific for the substance or mixture
Notification status

AICS: On the inventory, or in compliance with the inventory.
DSL: All components of this product are on the Canadian DSL.
ENCS: On the inventory, or in compliance with the inventory.
IECSC: On the inventory, or in compliance with the inventory.
ISHL: On the inventory, or in compliance with the inventory.

Isopropyl alcohol is listed in the catalog of the following countries:

Australia (AICS)
Canada (DSL)
China (IECSC)
European Union (EINECS)
Japan (ENCS)
South Korea (KECI)
New Zealand Philippines (PICCS).

SECTION 16: OTHER INFORMATION

THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS TO THE BEST OF THE COMPANY'S KNOWLEDGE AND BELIEVED ACCURATE AND RELIABLE AS OF THE DATE INDICATED.

HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.

*optional

NE = Not Established

NA = Not Applicable

PEL = Permissible Exposure Level