



SAFETY DATA SHEET

C1220 PHOSHPORUS DEOXIDIZES COPPER & TUBE, WIRE

CAS NO

ISSUE DATE : 2006.08.06

REVISION DATE : 2019.05.04

1. Product and Manufacturer

- ① Material : Deoxidized High Phosphorus Copper(C12200)
- ② Usage: Heat Exchanger, Plumbing, Electricity, Electron
- ③ Harmful classification (Ministry of Labor notification) : None
- ④ General Chemical characteristic : Solid
- ⑤ Manufacturer address / Information : Daejin Copper Pipe & Tube
Address : 192, Haean-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea
- ⑥ Supplier address / Information : Airefrig Australia Pty Ltd
Address : 75 Beechboro Road, Bayswater WA 6053 - Phone: 08 9272 8977

2. Constituent parts and Construct

NO	Title	Element	CAS NO	Content (%)
1	Copper	Cu	7440-50-8	99.0% (Min)
2	Phosphorus	P	7723-31-0	0.015~0.040%

3. Harmfulness

- ① Classification of harmfulness
CERCLA index : health=(0), blaze=(3), explosion=(1)
- ② Acute Effect : metal fever, diarrhea, stomachache, dizziness, neural damage, shock, vomit, dermatitis
- ③ Chronic Effect : same effect with acute effect and hair loss, headache, lung condition
- ④ Path of the invasive : respiratory organ, digestive organs
- ⑤ Warning signs including preventive message
- Pictograph



- Signal words : Danger

- Harmful/Risk phrase : H335 Stimulate respiratory organs
H400 Very harmful organism living in water
H372 Can be caused body damage by long period or repeated exposure
- Phrase of prevent measures :
a) Prevent : P260 Do not breathe in dust, gas, mist, steam, spray
P261 Avoid inhalation in dust, gas, mist, steam, spray
P264 Completely wash the area of treat after handling.
P270 Do not drink and inhale when use it.
P271 Treat it in a well-ventilated place.
P273 Do not discharge to the environment.
b) Action : P304+340 If inhaled it, move to the place with fresh air and take rest with comfortable position.
P312 Feel uncomfortable, consult a doctor
P314 Feel uncomfortable, seek expert's advice
P391 Save leakage
c) Preservation : P403+P233 Container must be tightly stored in well-ventilated place
P405 must be stored in a locked location with locking device

4. Emergency measures

Skin : take off the contaminated cloth and shoes then wash with ① large amount of water
② Eyes : wash with large amount of water
③ Inhale : move to the place with fresh air, execute CPR if necessary
④ Ingestion : if vomit, do free airway and then have stomach pumped by saline solution
⑤ Doctor : immediately get medical action

5. Coping method during blaze and explosion

① Flash/Ignition : None
② Explosion : In the case of molten state, may react violently with water
③ Type of extinguisher : powder extinguisher, soda ash, lime or sand
④ Extinguish method : Do not sprinkle the water on burning material, use the sand
⑤ Product of harmful combustion : None

6. Method for handling during leakage accident

① Individual protection action : Do not touch the emitted substances, follow managers' instruction
② Environment protection action : collect the leakage materials and then separate collection and recycle
③ Action after accident : follow the expert's instruction

7. Exposure protect and personal protective equipment

① Permissive density
TWA : 10mg / m² (Standard of OSHA)
② Engineering action : Install type general ventilation systems
Personal protective equipment : safety glasses, protective clothing, ③ protective gloves,

dust mask

8. Handling and storage methods

- ① Precaution for handling : Isolate with halogen compound, hydrocarbons, acid
Possible to explode if put water into melting leakage
Wear dust mask, safety glasses, protective clothing
when copper ashes handling
- ② Precaution for storage : Store in water proof and dried, well-ventilated place

9. Reliability and responsiveness

- ① Reliability : stable at normal temperature and pressure
- ② Responsiveness : produces highly inflammable hydrogen when react with acid or water
- ③ Avoid condition : follow the expert's instruction when mix with compounds
- ④ Avoid substances : possible to explode during rapid chemical reaction

10. Physiochemical property

- ① Appearance : solid
- ② Smell : None
- ③ PH : None
- ④ Solubility : None
- ⑤ Boiling point : None
- ⑥ Melting point : 1080°C
- ⑦ Explosiveness : None
- ⑧ Oxidation : None
- ⑨ Specific gravity : 8.94
- ⑩ Steam pressure : None

11. Information of toxicity

- ① LD50 : None
- ② LC50 : None
- ③ Cancerogenic : None

12. Environmental impact

- ① Aquatic and eco-toxicity : None
- ② Ground mobility : None
- ③ Residual and degradability : None
- ④ Possibility of accumulation in living creature : None

13. Disposal notes

Status of Waste Management ① Act regulations : None

- ② Disposal strategy : Disposal by relative regulation
- ③ Disposal notes : None

14. Information for transportation

- ① The rule and regulation by Ship Safety Act on shipping dangerous goods and storage : None
- ② Precaution of transportation : None
- ③ Categorization and regulation of other foreign transportation regulations : None

15. Information of relevant laws

- ① Industrial safety and health act : substances on MSDS
- ② Environment Management Act : None
- ③ Fire law : None

16. Other notes

- ① Reference : Article 41 of the Industrial Safety and Health Act
- ② Reference : Exposure standard for chemical and physical factor
(Article 97-65 of the Ministry of Labor)