

SHEET 0712410

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Safety Data Sheet

Date of Issue: | Revision Date: 05/27/2016 | Revision Number:

Imperial Supplies Part Number: 0712410

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form:

Product Name: PVC-INSULATED AND PVC-INSULATED DOUBLE CRIMP TERMINALS

CAS No:

Synonyms:

1.2. Intended Use of the Product

Use of the substance/mixture: Electrical terminals

1.3. Name, Address, and Telephone of the Responsible Party

Company

K.S. TERMINALS INC.

No.8, Zhangbin E.3rd Road,

Xianxi Township, Changhua Country 507

Phone: +886-4-7580001-529

1.4. Emergency Telephone Number

Emergency | +886-4-7580001

number |

SECTION 2: HAZARDS IDENTIFICATION

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2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Skin	Category 1
Sensitizer	

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)					
Signal Word (GHS-US)	WARNING				
Hazard Statements (GHS-US)	H317: May cause an allergic skin reaction.				
Precautionary Statements (GHS-US)	Precautionary statement(s) Prevention				
	P280: Wear protective gloves/protective clothing eye				
	protection/face protection.				
	P261: Avoid breathing dust/fumes.				
	P272: Contaminated work clothing should not be				
	allowed out of the workplace.				
	Precautionary statement(s) Response				
	P363: Wash contaminated clothing before reuse.				
	P302+P352: IF ON SKIN: Wash with plenty of soap and				
	water.				
	P333+P313: If skin irritation or rash occurs: Get				
	medical advice/attention.				
	Precautionary statement(s) Storage				
	Not Applicable				
	Precautionary statement(s) Disposal				
	P501: Dispose of contents/container in accordance				
	with local regulations.				

2.3. Other Hazards

Other Hazards Not Contributing to the Classification:

2.4. Unknown Acute Toxicity (GHS-US)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Name	Product identifier	%	Classification
			(GHS-US)

Full text of H-phrases: See Section 16

3.2. Mixture

Name	Product identifier	%	Classification
			(GHS-US)
Copper	7440-50-8	67.99399	
		3	
Polyvinyl chloride	9002-86-2	30.32811	
		2	
Styrene/ butadiene/ methyl methacrylate copolymer	25053-09-2	1.596217	
Tin	7440-31-5	0.068069	
Phosphorus	7723-14-0	0.013602	
Lead	7439-92-1	0.000007	

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General:

First-aid Measures After Inhalation:

If fumes, aerosols or combustion products are inhaled remove from contaminated area.

Other measures are usually unnecessary.

First-aid Measures After Skin Contact:

If skin or hair contact occurs:

Flush skin and hair with running water (and soap if available).

Seek medical attention in event of irritation.

First-aid Measures After Eye Contact:

If this product comes in contact with eyes:

Wash out immediately with water.

If irritation continues, seek medical attention.

Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

First-aid Measures After Ingestion:

Immediately give a glass of water.

First aid is not generally required.

If in doubt, contact a Poisons Information Centre or a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries:

Symptoms/Injuries After Inhalation:

Symptoms/Injuries After Skin Contact:

Symptoms/Injuries After Eye Contact:

Symptoms/Injuries After Ingestion:

Chronic Symptoms:

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media:

There is no restriction on the type of extinguisher which may be used.

Use extinguishing media suitable for surrounding area.

Unsuitable Extinguishing Media:

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: None known.

Explosion Hazard:

Non combustible.

Not considered a significant fire risk, however containers may burn.

Reactivity:

5.3. Advice for Firefighters

Precautionary Measures Fire:

Firefighting Instructions:

Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves in the event of a fire.

Prevent, by any means available, spillage from entering drains or water courses.

Use fire fighting procedures suitable for surrounding area.

Protection During Firefighting:

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures:

6.1.1. For Non-emergency Personnel

Protective Equipment:

Emergency Procedures:

6.1.2. For Emergency Responders

Protective Equipment:

Emergency Procedures:

6.2. Environmental Precautions

6.3. Methods and Material for Containment and Cleaning Up

For Containment:

Methods for Cleaning Up:

Minor Spills:

Clean up all spills immediately.

Avoid contact with skin and eyes.

Wear impervious gloves and safety glasses.

Use dry clean up procedures and avoid generating dust.

Major Spills:

Clear area of personnel and move upwind.

Alert Fire Brigade and tell them location and nature of hazard.

Control personal contact with the substance, by using protective equipment and dust respirator.

Prevent spillage from entering drains, sewers or water courses.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed:

Safe handling:

Limit all unnecessary personal contact.

Wear protective clothing when risk of exposure occurs.

Use in a well-ventilated area.

Avoid contact with incompatible materials.

Other Information:

Store in original containers.

Keep containers securely sealed.

Store in a cool, dry area protected from environmental extremes.

Store away from incompatible materials and foodstuff containers.

Hygiene Measures:

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures:

Storage Conditions:

Suitable container:

PE bag.

Lined metal can. lined metal pail/ can

Plastic pail.

Polyliner drum.

Storage incompatibility:

Avoid contamination of water foodstuffs, feed or seed.

7.3. Specific End Use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Source

Ingredient

Material name

TWA

STEL

Peak

Notes

US OSHA Permissible Exposure Levels (PELs)-Table Z1

Copper

Copper - Fume / Copper

0.1 mg/m³ /1 mg/m³

Not available

Not available

(as Cu) / (as Cu);Dusts and mists

US OSHA Permissible Exposure Levels (PELs) Table Z3

Copper

Inert or Nuisance Dust

5 mg/m³/ 15mg/m³ /15mppcf /50mppcf

Not available

Not available

Repairable fractional! inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1. / Total dust[^]II inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.

US ACGIH Threshold Limit Values (TLV)

Copper

Copper - Fume, as Cu / Copper -Dusts and mists, as Cu

0.2 mg/m³ /1 mg/m³

Not available

Not available

TLV Basis: Irr; Gl; metal fume fever; BEI

US NIOSH Recommended Exposure Limits (RELs)

Copper

Copper metal dusts, Copper metal fumes

1 mg/m³

Not available

Not available

[*Note: The REL also applies to other copper compounds (as Cu) except Copper fume]

US ACGIH Threshold Limit Values (TLV)

polyvinyl chloride

Polyvinyl chloride

1 mg/m³

Not available

Not available

TLV◆ Basis: Pneumoconiosis; LRT irr; pulm func changes

US OSHA Permissible Exposure Levels (PELs) -Table Z3

styrene/ butadiene/ methyl methacrylate copolymer

Inert or Nuisance Dust

5 mg/m3 / 15mg/m3 /15 mppcf/50 mppcf

Not available

Not available

Respirable fractional inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1. / Total dust; All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.

US OSHA Permissible Exposure Levels (PELs) -Table Z1

Tin

Tin, organic compounds

0.1 mg/m3

Not available

Not available

(as Sn)

US OSHA Permissible Exposure Levels (PELs) -Table Z1

Tin

Tin, inorganic compounds

2 mg/m3

Not available

Not available

(as Sn);(except oxides)

US NIOSH Recommended Exposure Limits (RELs)

tin

Metallic tin, Tin flake. Tin metal, Tin powder

2 mg/m3

Not available

Not available

[*Note: The REL also applies to other inorganic tin compounds (as Sn) except tin oxides.]

US OSHA Permissible Exposure Levels (PELs)-Table Z3

phosphorus

Inert or Nuisance Dust

5 mg/m³ / 15 mg/m³ / 15 mppcf / 50 mppcf

Not available

Not available

Respirable fractional inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1. / Total dust All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.

US NIOSH Recommended Exposure Limits (RELs)

phosphorus

Elemental phosphorus, White phosphorus

0.1 mg/m³

Not available

Not available

Not Available

US OSHA Permissible Exposure Levels (PELs) - Table Z1

lead

Lead, inorganic

0.05 mg/m³

Not available

Not available

(as Pb); see 1910.1025; If an employee is exposed to lead for more than 8 hours in any work day, the permissible exposure limit, as a time weighted average (TWA) for that day, shall be reduced according to the following formula: Maximum permissible limit (in mg/m³) = 400/hours worked in the day.

US ACGIH Threshold Limit values (TLV)

lead

Lead and inorganic compounds, as (PB)

0.05 mg/m³

Not available

Not available

TLV Basis: CNS & PNS impair; hematologic eff; BE!

US NIOSH Recommended Exposure Limits (RELs)

lead

Lead metal. Plumbum

0.05 mg/m³

Not available

Not available

See Appendix C ["Note: The REL also applies to other lead compounds (as Pb) - see Appendix C.J

Ingredient

Material name

TEEL-1

TEEL-2

TEEL-3

copper

Copper

1 mg/m³

1 mg/m³

45 mg/m³

polyvinyl chloride

Polyvinyl chloride

3 mg/m³

33 mg/m³

200mg/m³

styrene/ butadiene/methyl methacrylate copolymer

Particulate material (PNOS)

30 mg/m³

330 mg/m³

2000 mg/m3

Tin

Tin

6 mg/m3

67 mg/m3

400mg/m3

phosphorus

Phosphorus (red)

0.27 mg/m3

3 mg/m3

3 mg/m3

lead

Lead

0.15 mg/m3

120mg/m3

700mg/m3

Ingredient

Original IDLH

Revised IDLH

Copper

N.E- mgfrn3 / N.E. ppm

100mg/m3

tin

Unknown mg/m3 / 400 mg/m3 / Unknown ppm

25mg/m3/ 100mg/m3

lead

700 mg/m3

100mg/m3

8.2. Exposure Controls

Appropriate Engineering Controls	<p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard physically away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment.</p>
Personal Protective Equipment	
Materials for Protective Clothing	
Hand Protection	<p>Hands/feet protection: Suitability and durability of glove type is dependent on usage. Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.</p> <ul style="list-style-type: none">pohchloroprene.nitnle rubber.butyl rubber.
Eye Protection	<p>Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard: soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use. should be created for each -workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.</p>
Skin and Body Protection	<p>See hand protection below.</p>

|The selection of suitable gloves does not only
|depend on the material, but also on further marks of
|quality which vary from manufacturer to
|manufacturer. Where the chemical is reparation of
|several substances, the resistance of the glove
|material can not be calculated in advance and has
|therefore to be checked prior to the application.
|The exact break through time for substances has to
|be obtained from the manufacturer of the protective
|gloves and has to be observed when making a final
|choice.

|Body Protection: See other protection below.

Respiratory Protection |Particulate. {AS/NZS 1716 & 1715. EN 143:000 &
|149001, ANSI Z88 or national equivalent).

Thermal Hazard Protection |Not Available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	Solid
Appearance	Metal silver + various color PVC
Odor	Not Available.
Odor Threshold	Not Available.
pH	Not Available.
Relative Evaporation Rate (butyl acetate=1)	Not Available.
Melting Point	
Freezing Point	Not Available.
Boiling Point	
Flash Point	Not Available.
Auto-ignition Temperature	Not Available.
Decomposition Temperature	Not Available.
Flammability (solid, gas)	Not flammable
Vapor Pressure	Not Available.
Relative Vapor Density at 20 °C	Not Available.
Relative Density	Not Available.
Specific Gravity	

Solubility	Not Available.
Partition coefficient:	Not Available.
n-octanol/water	
Viscosity	Not Available.
Lower Flammable Limit	Not Available.
Upper Flammable Limit	Not Available.

9.2. Other Information

VOC: Not Available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

See section 7

10.2 Chemical Stability

Product is considered stable and hazardous polymerization will not occur.

10.3 Possibility of Hazardous Reactions

See section 7

10.4 Conditions to Avoid

See section 7

10.5 Incompatible Materials

See section 7

10.6 Hazardous Decomposition Products

See section 5

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity:

Skin Corrosion/Irritation:

Serious Eye Damage/Irritation:

Respiratory or Skin Sensitization:

Germ Cell Mutagenicity:

Carcinogenicity:

Reproductive Toxicity:

Specific Target Organ Toxicity (Single Exposure):

Specific Target Organ Toxicity (Repeated Exposure):

Aspiration Hazard:

Symptoms/Injuries After Inhalation: The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Symptoms/Injuries After Skin Contact: The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

Symptoms/Injuries After Eye Contact: Although the material is not thought to be an irritant (as classified by EC Directives), direct contact transient discomfort characterised with the eye may be tearing or conjunctival redness (as with windburn). Sight abrasive damage may also result.

Symptoms/Injuries After Ingestion: The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.

Chronic Symptoms: Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.2. Persistence and Degradability

Ingredient	Persistence: water/soil
Persistence: Air	
polyvinyl chloride	LOW
LOW	

12.3. Bioaccumulative Potential

Ingredient	Bioaccumulation
polyvinyl chloride	LOW(LogKOW= 1.6233)
Phosphorus	HIGH (BCF = 2310000)

12.4. Mobility in Soil

Ingredient	Mobility
polyvinyl chloride	LOW(KOC= 23.74)

12.5. Other Adverse Effects

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations:

Recycle wherever possible or consult manufacturer for recycling options.

Consult State Land Waste Management Authority for disposal.

Bury residue in an authorised landfill.

Recycle containers if possible, or dispose of in an authorised landfill.

Additional Information:

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Hazard Class	<PICTOGRAM PHRASE>
Identification Number	
Label Codes	
ERG Number	

14.2 In Accordance with IMDG

Proper Shipping Name	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Hazard Class	
Identification Number	
Label Codes	<PICTOGRAM PHRASE>
ntification Of The	
Substance/m	
EmS-No. (Fire)	
EmS-No. (Spillage)	

14.3 In Accordance with IATA

Proper Shipping Name	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Identification Number	<PICTOGRAM PHRASE>
Hazard Class	
Label Codes	
ntification Of The	
Substance/m	
ERG Code (IATA)	

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

Name

Reportable Quantity In Pounds (lb)

Reportable Quantity In kg

Copper

5000

2270

Lead

10

4.54

SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard
| Yes
| Delayed (chronic) health hazard
| No
| Fire hazard
| No
| Pressure hazard
| No
| Reactivity hazard
| No

Toxic Substances Control Act (TSCA) |

15.2 US State Regulations

State Regulations

US. CALIFORNIA PROPOSITION 65: WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - CALIFORNIA PREPOSITION 65 - CARCINOGENS & REPRODUCTIVE TOXICITY (CRT): LISTED SUBSTANCE.

Lead and lead compounds: Lead Listed.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date | 05/27/2016
Other | Classification of the preparation and its individual components
Information | has drawn on official and authoritative sources as well as
| independent review by the Chemwatch Classification committee
| using available literature references.

GHS Full Text Phrases:

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