

SHEET 0712251

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Safety Data Sheet

Date of Issue: |Revision Date: Apr 01, 2016|Revision Number:

Imperial Supplies Part Number: 0712251

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form:

Product Name: HEAT SHRINKABLE - BUTT SPLICE CONNECTORS

CAS No:

Synonyms: Not Available

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.Ch.

Phone: 00886-4-7580001 Ext:529

Email: Huichen@ksterminals.com.tw

1.4. Emergency Telephone Number

Emergency |008864-7580001

number |

SECTION 2: HAZARDS IDENTIFICATION

[Leave a message](#)

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

NOT APPLICABLE|
|
|

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)					
Signal Word (GHS-US)	NOT APPLICABLE				
Hazard Statements (GHS-US)	Not Applicable				
Precautionary Statements (GHS-US)	Not Applicable				

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)
Poly(hexamethylenedipamide)	32131-17-2	33.4	
Copper	7440-50-8	33.297	
Tin	7440-31-5	33.297	
Phosphorus	7723-14-0	0.003	
Lead	7439-92-1	0.003	

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General:

First-aid Measures After Inhalation: If fumes or combustion products are inhaled remove from contaminated area.

Lay patient down. Keep warm and rested.

Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.

Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.

Transport hospital, or doctor.

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.

In case of burns:

Immediately apply cold water to burn either by immersion or wrapping with saturated clean cloth.

DO NOT remove or cut away clothing over burnt areas. DO NOT pull away clothing which has adhered to the skin as this can cause further injury.

DO NOT break blister or remove solidified material.

Quickly cover wound with dressing or clean cloth to help prevent infection and to ease pain.

For large burns, sheets, towels or pillow slips are ideal; leave holes for eyes, nose and mouth.

DO NOT apply ointments, oils, butter, etc. to a burn under any circumstances.

Water may be given in small quantities if the person is conscious.

Alcohol is not to be given under any circumstances.

Reassure.

Treat for shock by keeping the person warm and in a lying position.

Seek medical aid and advise medical personnel in advance of the cause and extent of the injury and the estimate time of arrival of the patient.

For thermal burns:

Decontaminate area around burn.

Consider the use of cold packs and topical antibiotics.

For first-degree burns (affecting top layer of skin)

Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides.

Use compresses if running water is not available.

Cover with sterile non-adhesive bandage or clean cloth.

Do NOT apply butter or ointments; this may cause infection.

Give over-the counter pain relievers if pain increases or swelling, redness, fever occur.

For second-degree burns (affecting top two layers of skin)

Cool the burn by immerse in cold running water for 10-15 minutes.

Use compresses if running water is not available.

Do NOT apply ice as this may lower body temperature and cause further damage.

Do NOT break blisters or apply butter or ointments; this may cause infection.

Protect burn by cover loosely with sterile, nonstick bandage and secure in place with gauze or tape.

To prevent shock: (unless the person has a head, neck, or leg injury, or it would cause discomfort):

Lay the person flat.

Elevate feet about 12 inches.

Elevate burn area above heart level, if possible.

Cover the person with coat or blanket.

Seek medical assistance.

For third-degree burns

Seek immediate medical or emergency assistance.

In the mean time:

Protect burn area cover loosely with sterile, nonstick bandage or, for large areas, a sheet or other material that will not leave lint in wound.

Separate burned toes and fingers with dry, sterile dressings.

Do not soak burn in water or apply ointments or butter this may cause infection.

To prevent shock see above.

For an airway burn, do not place pillow under the person's head when the person is lying down. This can close the airway.

Have a person with a facial burn sit up.

Check pulse and breathing to monitor for shock until emergency help arrives.

First-aid Measures After Eye Contact: If this product comes in contact with the eyes:

Wash out immediately with fresh running water.

Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

Seek medical attention without delay; if pain persists or recurs seek medical attention.

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

DO NOT attempt to remove particles attached to or embedded in eye.

Lay victim down, on stretcher if available and pad BOTH eyes, make sure dressing does not press on the injured eye by placing thick pads under dressing, above and below the eye.

Seek urgent medical assistance, or transport to hospital.

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.

Copper, magnesium, aluminium, antimony, iron, manganese, nickel, zinc (and their

compounds) in welding, brazing, galvanising or smelting operations all give rise to thermally produced particulates of smaller dimension than may be produced if the metals are divided mechanically. Where insufficient ventilation or respiratory protection is available these particulates may produce 'metal fume fever' in workers from an acute or long term exposure.

Onset occurs in 4-6 hours generally on the evening following exposure. Tolerance develops in workers but may be lost over the weekend. (Monday Morning Fever)

Pulmonary function tests may indicate reduced lung volumes, small airway obstruction and decreased carbon monoxide diffusing capacity but these abnormalities resolve after several months.

Although mildly elevated urinary levels of heavy metal may occur they do not correlate with clinical effects.

The general approach to treatment is recognition of the disease, supportive care and prevention of exposure.

Seriously symptomatic patients should receive chest x-rays, have arterial blood gases determined and be observed for the development of tracheobronchitis and pulmonary edema.

[Elenhom and Barceloux: Medical Toxicology]

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Do NOT direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire

DO NOT use halogenated fire extinguishing agents.

Metal dust fires need to be smothered with sand, inert dry powders.

DO NOT USE WATER, CO₂ or FOAM.

Use DRY sand, graphite powder, dry sodium chloride based extinguishers, G-1 or Met L-X to smother fire.

Confining or smothering material is preferable to applying water as chemical reaction may produce flammable and explosive hydrogen gas.

Unsuitable Extinguishing Media:

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Reacts with acids producing flammable / explosive hydrogen (H₂) gas.

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

Explosion Hazard: DO NOT disturb burning dust Explosion may result if dust is stirred into a cloud, by providing oxygen to a large surface of hot metal. DO NOT use water or foam as generation of explosive hydrogen may result. With the exception of the metals (that burn contact with air or water for example, sodium), masses of combustible metals do not represent unusual fire risks because they have the ability to conduct heat away from hot spots so efficiently that the heat of combustion cannot be maintained - this means that it will require a lot of heat to ignite a mass of combustible metal. Combustion products include; carbon monoxide (CO) carbon dioxide (CO₂) nitrogen oxides (NO_x) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes. Nylon fines in air possess electrostatic properties which assist sparking small fires flame retardant grades of nylon should cease flaming once source of ignition is removed In large fires burning will be sustained if sufficient oxygen is available. Decomposes on heating and produces toxic fumes of ammonia, nitrogen oxides (NO_x), minor amounts of hydrogen cyanide and in case of flame retardant grades, halogenated gases. CARE: Contamination of heated / molten liquid with water may cause violent steam explosion, with scattering of hot contents. 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.

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

Use water delivered as a fine spray to control fire and cool adjacent 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: Remove all ignition sources.

Clean up all spills immediately.

Avoid contact with skin and eyes.

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

Major Spills: If molten: Contain the flow using dry sand or salt flux as a dam.

All tooling (e.g., shovels or hand tools) and containers which come in contact with molten metal must be preheated or specially coated, rust free and approved for such use.

Allow the spill to cool before remelting scrap.

Moderate hazard.

CAUTION: Advise personnel in area.

Alert Emergency Services and tell them location and nature of hazard.

Control personal contact by wearing protective clothing.

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: For molten metals:

Molten metal and water can be an explosive combination. The risks greatest when there is sufficient molten metal to entrap or seal off water. Water and other forms of contamination on or contained in scrap or remelt ingot are known to have caused explosions in melting operations. While the products may have minimal surface roughness and internal voids, there remains the possibility of moisture contamination or entrapment.

The greatest potential for injury caused by molten materials occurs during purging of machinery (moulders, extruders etc.)

It is essential that workers in the immediate area of the machinery wear eye and skin protection (such as full face, safety glasses, heat resistant gloves overalls and safety boots) as protection from thermal burns.

Fumes or vapours emitted from hot melted materials, during converting operations, may condense on overhead metal surfaces or exhaust ducts. The condensate may contain substances which are irritating or toxic. Avoid contact of that material with the skin.

Avoid all personal contact, including inhalation.

Wear protective clothing when risk of exposure occurs.

Use in a well-ventilated area.

Prevent concentration in hollows and sumps.

Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions)

Minimise airborne dust and eliminate all ignition sources. Keep away from heat hot surfaces, sparks and flame.

Establish good housekeeping practices.

Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.

Hygiene Measures:

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Inner: Polyethylene plastic bag/outer package carton

Bulk bags: Reinforced bags required for dense materials

CARE: Packing of density product in light weight metal or plastic packages may result in container collapse with product release

Heavy gauge metal packages / heavy gauge metal drums

Storage Conditions: Many metals may incandesce, react violently, ignite or react

explosively upon addition of concentrated nitric acid.

Nylon, nitrosated with dinitrogen trioxide and stored cold, exploded on warming to ambient temperature. The N-nitroso-nylon is similar structurally to N-nitroso-N-alkylamides, some of which are thermally unstable. Nylon components should be excluded from contact with nitrosating agents.

BRETHERRICK L: Handbook of Reactive Chemical Hazards

Metals exhibit varying degrees of activity. Reaction is reduced in the massive form (sheet, rod, or drop), compared with finely divided forms. The less active metals will not burn in air but:

can react exothermically with oxidising acids to form noxious gases.

catalyse polymerisation and other reactions, particularly when finely divided
react with halogenated hydrocarbons (for example, copper dissolves when heated in carbon tetrachloride), sometimes forming explosive compounds.

Finely divided metal powders develop pyrophoricity when a critical specific surface area is exceeded; this is ascribed to high heat of oxide formation on exposure to air.

Safe handling is possible in relatively low concentrations of oxygen in an inert gas.

Several pyrophoric metals, stored in glass bottles have ignited when the container is broken on impact. Storage of these materials moist and in metal containers is recommended.

Many metals in elemental form react exothermically with compounds having active hydrogen atoms (such as acids and water) to form flammable hydrogen gas and caustic products.

Elemental metals may react with azo/diazo compounds to form explosive products.

Some elemental metals form explosive products with halogenated hydrocarbons.

7.3. Specific End Use(s)

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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

OCCUPATIONAL EXPOSURE LIMITS (DEL)

INGREDIENT DATA

Source

Ingredient

Material name

TWA

STEL

Peak

Notes

US OSHA Permissible Exposure Levels (PELs) -Table Z1

copper

Selenium compounds

2 mg/m3

Not Available

Not Available

(as Se)

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 / 15 mg/m3/ 15 mppcf/ 50 mppcf

Not Available

Not Available

Respirable fraction;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. / 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 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 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, organic compounds

2 mg/m³

Not Available

Not Available

(as Sn) except tin oxides.

US ACGIH Threshold Limit Values (TLV)

tin

Silver, and compounds -Metal, dust and fume

0.1 mg/m³

Not Available

Not Available

TLV Basis: Argyria

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 copper compounds (as Cu) except Copper fume.]

US OSHA Permissible Exposure Levels (PELs) -Table Z1

phosphorus

Inert or Nuisance Dust

5 mg/m³ / 15mg/m³/ 15 mppcf/ 50 mppcf

Not Available

Not Available

Respirable fraction; 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. / 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)= $\frac{400}{\text{hours worked in the day}}$.

US OSHA Permissible Exposure Levels (PELs) -Table Z2

lead

Cadmium fume/ Cadmium dust

0.1 mg/m³ /1 mg/m³

Not Available

0.3 mg/m³

/0.6

mg/m³

(237.5-1970);This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect

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; BEI

US ACGIH Threshold Limit Values (TLV)

lead

Cadmium and compounds, as Cd

0.002 mg/m3

Not Available

Not Available

TLV Basis: Kidney dam; BEI

US NIOSH Recommended Exposure Limits (RELs)

lead

Lead metal, Plumbum

0.050 mg/m3

Not Available

Not Available

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

EMERGENCY LIMITS

Ingredient

Material name

TEEL-1

TEEL-2

TEEL-3

copper

Copper

1 mg/m3

1 mg/m3

45 mg/m3

tin

Tin

6 mg/m3

67 mg/m3

400 mg/m3

phosphorus

Phosphorus (red)

0.27 mg/m3

3 mg/m3

3 mg/m3

lead

Lead

0.15 mg/m3

120 mg/m3

700 mg/m3

Ingredient

Original IDLH

Revised IDLH

copper

N.E. mg/m3 / N.E. ppm

100 mg/m3

tin

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

25 mg/m3 / 100 mg/m3

lead

700 mg/m3

100 mg/m3

8.2. Exposure Controls

Appropriate Engineering
Controls

|For molten materials:

|Provide mechanical ventilation; in general such
|ventilation should be provided at compounding/
|converting areas and at fabricating/ filling work
|stations where the material is heated Local exhaust
|ventilation should be used over and in the vicinity
|of machinery involved in handling the molten
|material.

|Keep dry!!

|Processing temperatures may be well above boiling

|point of water, so wet or damp material may cause a
|serious steam explosion if used in unvented
|equipment.

|Metal dusts must be collected at the source of
|generation as they are potentially explosive.

|Avoid ignition sources.

|Good housekeeping practices must be maintained

|Dust accumulation on the floor, ledges and beams can
|present a risk of ignition, flame propagation and
|secondary explosions.

Personal Protective Equipment|

Materials for Protective |

Clothing |

Hand Protection

|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 a preparation 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.

|Suitability and durability of glove type is
|dependent on usage.

|Protective gloves eg. Leather gloves or gloves with
|Leather facing.

|When handling hot materials wear heat resistant,
|elbow length gloves.

|Rubber gloves are not recommended when handling hot
|objects, materials

|Experience indicates that the following polymers are
|suitable as glove materials for protection against
|undissolved, dry solids, where abrasive particles
|are not resent.

|polychloroprene.

|nitrile rubber.

	butyl rubber.
Eye Protection	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.
Skin and Body Protection	See Hand protection below Other Protection: When handling hot or molten liquids, wear trousers or overalls outside of boots, to avoid spills entering boots. Usually handled as molten liquid which requires worker thermal protection and increases hazard of vapour exposure. CAUTION: Vapours may be irritating. Overalls. PV.C. apron. Barrier cream.
Respiratory Protection	Type A-P Filter of sufficient capacity. (AS/NZS 1716& 1715, EN 1432000 & 149:2001, 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	Silver/ solid
Odor	Not Available
Odor Threshold	Not Available
pH	Not Available
Relative Evaporation Rate (butyl acetate=1)	Not Available
Melting Point	Not Available
Freezing Point	Not Available

Boiling Point	Not Available
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	Not Available
Solubility	Not Available
Partition coefficient: 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

Unstable in the presence of incompatible materials.

Product is considered stable.

Hazardous polymerisation 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: Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual.

There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.

The inhalation of small particles of metal oxide results in sudden thirst, a sweet, metallic foul taste, throat irritation, cough, dry mucous membranes, tiredness and general unwellness. Headache, nausea and vomiting, fever or chills, restlessness, sweating, diarrhoea, excessive urination and prostration may also occur.

Usually handled as molten liquid which requires worker thermal protection and increases hazard of vapour exposure.

CAUTION: Vapours may be irritating.

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.

Open cuts, abraded or irritated skin should not be exposed to this material.

Entry into the Wood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

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

Tin salts are not very toxic. However, at high concentration, nausea, vomiting and diarrhoea can occur.

Chronic Symptoms: Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Workers exposed to nylon dusts for 20 years have, on occasion, shown respiratory tract lesions, including sarcoid-like lung granulomas. Occupational exposure to nylon dusts may result in pathologic lung changes.

Metallic dusts generated by the industrial process give rise to a number of potential health problems. The larger particles, above 5 micron, are nose and throat irritants.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.2. Persistence and Degradability

12.3. Bioaccumulative Potential

12.4. Mobility in Soil

12.5. Other Adverse Effects

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: DO NOT allow wash water from cleaning or process equipment to enter drains.

It may be necessary to collect all wash water for treatment before disposal.

In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.

Where in doubt contact the responsible authority.

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

|NO

|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 |Apr 01, 2016

Other |The SDS is a Hazard Communication tool and should be used to

Information |assist in the Risk Assessment Many factors determine whether the

|reported Hazards are Risks in the workplace or other settings.

|Risks may be determined by reference to Exposures Scenarios.

|Scale of use, frequency of use and current or available

|engineering controls must be considered.

GHS Full Text Phrases:

----|
-- |
----|
-- |
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