Permatex, Inc. 10 Columbus Blvd. Hartford, CT 06106 USA Telephone: 1-87-PERMATEX (877) 376-2839

Emergency: 800-255-3924 (ChemTel) International Emergency: +01-813-248-0585 MATERIAL SAFETY DATA SHEET

1. Product Identification

Product Name:

14H THREAD SEALANT W/PTFE 4 FL.OZ.

80632

Item No: Product Type: Sealant

2. Composition/Information of Component	n Ingredients Weight%	ACGIH; TLV-TWA	OSHA PEL
ETHANOL	20-40	1000 ppm	1000 ppm; 1900
64-17-5 TALC	20-40	2 mg/m	mg/m 20 mppcf
14807-96-6 CASTOR OIL	20-40	Not listed	Not listed
8001-79-4 POLYVINYL RESIN	<10	Not listed	Not listed
63148-65-2 2-PROPANOL	<5	200 ppm	400 ppm; 980 mg/m
67-63-0 TITANIUM DIOXIDE	<3	10 mg/m	15 mg/m
13463-67-7 METHANOL	<2	200 ppm	200 ppm; 260 mg/m
67-56-1 POLYTETRAFLUOROETHYLENE	<2	Not listed	Not listed
9002-84-0		1.00 110000	1,00 =====

3. Hazards Identification

May cause eye, skin and respiratory irritation. Methanol may cause blindness or death if swallowed.
Eye and skin contact, ingestion, inhalation Toxicity:

Primary Routes of

Entry: Signs and Symptoms of Exposure: Excessive accidental exposure may cause headache, dizziness, nausea and mild respiratory irritation. Overexposure may cause eye and skin redness.

Component	Weight%	NTP	ACGIH Carcinogens	IARC
ETHANOL 64-17-5	20-40		A4-Not Classifiable as a human carcinogen	
TALC 14807-96-6	20-40	Male rat-some evidence, female rat-clear evidence, male mice-no evidence, female mice-no evidence	A4-Not classifiable as a human carcinogen	Group 3 Supplement 7, 1987 Monograph 42, 1987
2-PROPANOL 67-63-0	<5		A4-Not Classifiable as a human carcinogen	Group 3 Monograph 71, 1999; Supp.7, 1987; Monograph 15, 1977
TITANIUM DIOXIDE 13463-67-7	<3	male rat-negative , female rat-negative , male mice-negativ e, female mile-negativ e		Group 2B; Vol 93, 2006; Vol 47, 1989
POLYTETRAFLUOROETHYLENE	<2	•		Group 3

9002-84-0

Supplement 7, 1987; Monograph 19,

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1979

Medical Conditions Preexisting eye, skin and respiratory disorders may be Recognized as Being aggravated by overexposure to this product. Aggravated by

Exposure:

4. First Aid Measures

Ingestion:

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give

anything by mouth to an unconscious person.

Move to fresh air in case of accidental inhalation of vapours. Obtain medical attention. Inhalation:

Wash off with soap and water. If skin irritation Skin contact:

persists, call a physician. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention Eye Contact:

if irritation persists.

5. Fire Fighting Measures Flash Point #F(CH): 74#F

TTC

Carbon Dioxide, Dry Chemicals, Foam. Recommended

Extinguishing Media:

Firefighters should wear self-containing breathing Special apparatus. Water spray may be ineffective on flames but should be used to keep fire-exposed containers cool. Fire-Fighting Procedures:

Hazardous Products Oxides of carbon, Fluoride compounds

of Combustion:

Closed containers may rupture or explode when exposed to Unusual

Fire/Explosion extreme heat.

Hazards:

2.3 Lower Explosive Limit:

Upper Explosive 12.7

Limit:

Respiratory Protection:

6. Accidental Release Measures

Spill Procedures:

Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal. Residues may be

cleaned up with isopropyl alcohol.

7. Handling and Storage

Store away from heat, sparks or open flame. Do not store at temperatures above 100:F (38:C).
Avoid contact with skin and eyes. Do not inhale vapors. Storage:

Handling:

Keep container closed when not in use.

8. Exposure Controls/Personal Protection

Safety glasses. Eyes:

Skin:

Neoprene or nitrile gloves recommended. General; local exhaust ventilation as necessary to Ventilation: control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have

not been established) during the use of this product. An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

9. Physical and Chemical Properties Appearance: White paste

Alcohol Odor: 180 F Boiling Point:

Does not apply Solubility in Water: Partial

1.06-1.10 Specific Gravity: VÕC(Wt.%): 36.5%; 395 g/I Vapor Pressure: Vapor Density 33 mm Hg @ 68 F

(Air=1):

Evaporation Rate: 7.7 (ether = 1)

10. Stability and Reactivity Chemical Stability: Stable in normal conditions

Hazardous Will not occur

Polymerization: Incompatibilities: Strong oxidizers

Conditions to Avoid: Keep away from heat, sparks and open flame. -No smoking. Hazardous Products Oxides of carbon, Fluoride compounds

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of Combustion:

11. Toxicological Information See Section 3

12. Ecological Information No data available

13.Disposal Considerations Recommended Method Dispos Disposal should be made in accordance with federal, state

and local regulations. of Disposal:

US EPA Waste Number: D001 as per 40CFR 261.21

14. Transportation Information DOT (49CFR 172)

Ground Transport (DOT)

DOT Shipping Name: Hazard Class:

Consumer Commodity (not more than one liter)

ORM-D None UN/ID Number:

IATA

Proper Shipping Consumer Commodity (Not more than 1 liter)

Name:

Class or Division: Class 9 UN/ID Number ID8000

IMDG

Proper Shipping: Hazard Class: Adhesives containing flammable liquid, Limited Quantity

Class 3 PGIII

UN 1133 UN Number:

Marine Pollutant: None

15. Regulatory Information

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313

Toxic Chemical.

Methanol No California Prop 65 chemicals are known to be present. California

Proposition 65:

TSCA Inventory All components of this product are listed (or exempt) on

the EPA TSCA inventory. Status:

16. Other Information Estimated NFPA HEALTH 2, FLAMMABILITY 3, REACTIVITY 0.

Rating:

Estimated HMIS HEALTH 2, FLAMMABILITY 3, PHYSICAL HAZARD 0

Classification:

NFPA is a registered trademark of the National Fire Protection Assn. HMIS is a registered trademark of the National Paint and Coatings Assn.

Denise Boyd, Revision August 11, 2010 Prepared By:

Manager-Environmental, Health & Date:

Safety

Permatex. Inc. 10 Columbus Blvd. Revision 7 Hartford, CT USA 06106 Number: Company:

Telephone No.: 1-87-Permatex (877) 376-2839

IMPERIAL SUPPLIES LLC OP220 PAGE: Requester: ORDER 0476W7 Rev Dt: 03/28/12 MSDS SHEET FOR 0091790

ITW Permatex 10 Columbus Blvd. Hartford, CT 06106 USA Telephone: 1-87-Permatex (877) 376-2839

Emergency: 800-255-3924

International Emergency: +01-813-248-0585

Material Safety Data Sheet

PRODUCT INDENTIFICATION

Product Name: 133K ANTI-SEIZE LUBRICANT 80Z

Item No:

80078

Product Type: Lubricant

COMPOSITION / INFORMATION ON INGREDIENTS

Weight%	ACGIH; TLV-TWA	OSHA PEL
40-60	Not listed	Not listed
15-25	2 mg/m3	5 mg/m3
	_	<u>.</u>
<10	2 mg/m3	15 mg/m3
	3.	3.
<10	1 mg/m3	15 mg/m3
	3.	3,
< 5	Not listed	Not listed
	40-60 15-25 <10 <10	40-60 Not listed 15-25 2 mg/m3 <10 2 mg/m3 <10 1 mg/m3

3. HAZARDS IDENTIFICATION

May cause eye and skin irritation. May cause nose, throat and respiratory irritation. May cause Toxicity:

gastrointestinal irritation. High concentrations may cause central nervous system (CNS) depression. Eye and skin contact, ingestion, inhalation

Primary Routes of

Entry:

Signs and Symptoms

of Exposure:

Overexposure may cause eye and skin redness, difficulty breathing and vomiting. Excessive accidental exposure may cause headache, dizziness, nausea and mild

respiratory irritation.

Weight% Component

MINERAL OIL 8012-95-1

NTP

ACGIH Carcinogens IARC Carcinogen A2 Suspected human Group 3 Supplement 7, carcinogen (poorly 1987; Monograph 33, 1984

and mildly refined); A4 not classifiable as a human carcinogen (highly and severely refined)

Aggravated Medical

Condition:

Persons with respiratory problems such as emphysema and asthma should avoid inhalation. Since this product contain copper compounds, individuals with Wilson's Disease should avoid exposure to this product.

4. FIRST AID MEASURES

Ingestion:

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Move to fresh air in case of accidental inhalation of vapours. If symptoms persist, call a physician.

Wash off immediately with soap and water. If skin irritation persists, call a physician.

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical Inhalation:

Skin Contact:

Eye Contact:

of water for at least 15 minutes and get medical attention if irritation persists.

FIRE FIGHTING MEASURES

Flash Point oF (Co): >200oF

Recommended Carbon Dioxide, Dry Chemicals, Foam.

Extinguishing Media:

Special Fire-Fighting Firefighters should wear self-contained breathing apparatus. Water spray may be ineffective on flames Procedures: but should be used to keep fire-exposed containers

cool.

Hazardous Products of Oxides of carbon, Metal oxide fumes

IMPERIAL SUPPLIES LLC PAGE: Requester: ORDER 0476W7 MSDS SHEET FOR 0091790 Rev Dt: 03/28/12

Combustion:

Unusual May ignite when sufficient heat is applied.

Fire/Explosion

Hazards:

Lower Explosive Not determined

Limit:

Upper Explosive Not determined

Limit:

ACCIDENTAL RELEASE MEASURES

Spill Procedures:

Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

7. HANDLING AND STORAGE

Storage:

Handling:

Store away from heat, sparks or open flame. Do not store at temperatures above 100oF (380C). Avoid prolonged skin contact. Keep away from eyes. not inhale vapors. Do not use near heat, sparks or open flame. Wash hands before eating and smoking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Safety glasses

Skin:

Ventilation:

Neoprene or nitrile gloves recommended. General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this

product.

Not required under normal use. An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits. Respiratory Protection:

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Silver paste

Petroleum distillates Odor:

Not determined Boiling Point:

Does not apply pH:

Solubility in Water: Nil Specific Gravity: 1.17 VÕC(Wt.%):

Vapor Pressure: <5 mm Hg <1

Vapor Density

(Air=1):

Evaporation Rate: <1 (butyl acetate = 1)

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at normal conditions

Hazardous Will not occur

Polymerization:

Strong oxidizers, alkalies, mineral acids, selected Incompatabilities:

amines. Conditions to Avoid: Heat.

Hazardous Products of Oxides of carbon, Metal oxide fumes

Combustion:

11. TOXICOLOGICAL INFORMATION See Section 3

ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal should be made in accordance with federal,

Disposal: state and local regulations.
US EPA Waste Number: NH - Not a RCRA Hazardous Waste Material

TRANSPORATION INFORMATION

DOT (49CFR 172)

U.S. Department of Transportation 0 DOT - 49 CFR (Ground)
DOT Shipping Name: Not regulated
Hazard Class: None

UN/ID Number: None IATA (Air)

Proper Shipping Name: Not regulated

Class or Division: None UN/ID Number: None

IMDG (Vessel)

IMPERIAL SUPPLIES LLC PAGE: OP220 Requester: ORDER 0476W7 MSDS SHEET FOR 0091790 Rev Dt: 03/28/12

Proper Shipping Name: Not regulated Hazard Class: None

UN Number: None

Marine Pollutant: None

15. REGULATORY INFORMATION SARA 313 Chemicals: The following components(s) is listed as a SARA Section

313 Toxic Chemical.

NONE

California Proposition 65: No California Prop 65 chemicals are known to be present at or above the No Significant Risk Level TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION Estimated NFPA Rating:

HEALTH 1, FLAMMABILITY 1, REACTIVITY 0. HEALTH 1, FLAMMABILITY 1, PHYSICAL HAZARD 0

Estimated HMIS Classification:

(NFPA is a registered trademark of the National Fire Protection Association) HMIS is a registered trademark of the National Paint and Coatings Association

Prepared By:

Revision Date: February 09, 2012 Denise Boyd, Manager-

Environmental, Health & Safety

Revision Number: 1

Company: ITW Permatex

10 Columbus Blvd.

Hartford, CT USA 06106 Telephone No.: 1-87-Permatex (877) 346-2839

IMPERIAL SUPPLIES LLC PAGE: OP220 Requester: ORDER 0476W7 MSDS FOR 0718940 Rev Dt: 03/10/10

K.S. TERMINALS INC. MATERIAL SAFETY DATA SHEET

No. MSDS-025

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Company name: Company address:

HEAT SHRINKABLE TERMINALS
K.S. TERMINALS INC>
8, E. 3rd ROAD, CHANG PIN IND.
PARK, HSIEN SHI CHANG HWA, TAIWAN

886-47580001 Company Phone: TEL: 886-47580003 FAX: 2009/3/31 Revised:

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1 COPPER (Cu) CAS NO:

7440-50-8

Cu: 99.9% (CAS No. 7440-50-8) Chemical components:

P: 0.015%-0.04% (CAS No. 7723-14-0)

2.2 Tin Plated CAS No: 7440-31-5 Chemical components: TIN SN: 99.9% LEAD (PB): 0.01%

2.3 Polyolefin (PE) CAS No: 32131-17-2 Chemical components:

95-100%

3. HAZARDS IDENTIFICATION

3.1 Endanger the effect the most

importantly

(1) POTENTIAL HELATH EFFECTS: There is not any danger on the

solid.

(2) Environmental impact:

(3) Physics and chemistry danger: (4) Endanger specially:

No 3.1.2 Main symptom: No

3.1.3 Articles are endangered and No

classified:

4. FIRST AID MEASURES

1. Expose the way first aid method

differently:

(1) Eyes contact:

Do not need.

(2) Skin contact:
(3) Ingestion:
2. The most important symptom and danger effect:

3. Shelter to the first-aid Do not need personnel: 4. Suggestion to the doctor: Do not need

. FIRE FIGHTING MEASURES EXTINGUISHING MEDIA:

For localized power fires, smother with dry sand, dry dolomite, Sodium chloride of soda ash. Use

fire-extinguishing media

appropriate to fight surrounding

fire.

6. ACCIDENTAL RELEASE MEASURES Individual is in conformity with the precautions:

Environmental precautions: Clear up the method:

Solid material is not suitable

Solid material is not suitable Will let out the end son and pack the container into, in order to prevent personnel from slipping.

7. HANDLING AND STORAGE Handle:

This product does not belong to the dangerous wastes, can trust the retrieving trader to give reclaiming to deal with when must

abandon.

Do not need.

Do not need.

Store:

1. Putting will ventilate the good indoor place to the dryness.
2. Forbid expose on outdoors or warm humidity high airtight space, avoid with sour, soda, saline material store together.

3. Keep away from heat source, spark, flame.

IMPERIAL SUPPLIES LLC PAGE: OP220 Requester: ORDER 0476W7 Rev Dt: 03/10/10 MSDS FOR 0718940

8. EXPOSURE CONTROLS / PERSONAL PROTECTION 1, Project is controlled: 2, Biological index: 3, Personal safeguard:

9. PHYSICAL AND CHEMICAL PROPERTIES

Sn PECopper Solid Solid Solid Appearance Melting point Boiling point Specific 1083 C 231 C 140 C 2875 C 2595 C 7.3 8.94 >1.0 gravity

10. STABILITY AND REACTIVITY

Quite stable under the general environment, the activation is little possible danger reacts 10.1 Is stable:

under.

10.2 Special states:
No
10.3 States that should be avoided: Contact sour, soda and salt

10.4 Endangers and resolves things: No

11. TOXICOLOGICAL INFORMATION 11.1 Urgent toxicity: No 11.2 Some effects: No 11.3 Causes the sensitiveness: No 11.4 Slow toxicity or long-term No toxicity: 11.5 Special effects: No

12. ECOLOGICAL INFORMATION 12.1 possible environmental impact/the environment This product is unable to be resolved by the living beings, but can pass proper way and retrieve.

13. DISPOSAL CONSIDERATIONS This product is not a harmfulness offal, can trust the retrieving trader to give reclaiming to deal with when must abandon.

14. TRANSPORT INFORMATION

While transporting a product, should pay attention to not exposing under the sunshine directly, avoid touching with water directly.

15, REGULATORY INFORMATION

Suitable regulation:

Usually have no regulation of a specific decree.

16. OTHER INFORMATION

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.