

MATERIAL SAFETY DATA SHEET

Date of issue: Oct 10, 2011, Revision #3

MATERIAL SAFETY DATA SHEET

STACfill LT

HMIS & NFPA Hazard Ratings:

0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme

Health=0	Flammability=1	Reactivity=0
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: STACfill LT

Synonyms: Complex Mixture of paraffin waxes, polyisobutylene, calcium, silicate, Napthenic oils, closed cell cellular polymers, Petroleum derived hydrocarbon base.

General Use: For long-life corrosion protection, sealing and waterproofing of atmospheric buried and submerged metal surfaces. For application in cooler and/or cold atmospheric temperatures. A complementary component of the STACsystem, specially suitable for profiling irregular surfaces for gas utility, sewer, potable water, mining, and wastewater applications, and filling voids, before applying over wrapping of STACwrap and STACguard.

Company Identification:

Manufacturer:

Central Products (Tianjin) Co., Ltd.
B-H-E23 Houtai, Zhong Bei Industrial Park, Xiqing District
Tianjin 300384 P.R. China

Phone: +86-22-2379-3591

Importer:

PTY Enterprises
2201 Harbor St, Unit C
Pittsburg, CA 94565 USA

Phone: +1-510-414-9924

For emergencies in U.S.A., Call: +1-510-414-9924

MATERIAL SAFETY DATA SHEET

2. HAZARDS IDENTIFICATION

GHS Hazard Classification:

Hazard statements : Eyes: N/A
Ingestion: May cause irritation of digestive tract
Inhalation: N/A
Skin: May cause irritation on prolonged contact

Precautionary statements :

Respiratory: No special protection is needed working with solid material.
Protection from fumes or vapors from molten material may be necessary, using a suitable filter-type respirator.

Eyes: Chemical goggles

Ventilation: None required under normal use.

Protective Gloves: None required under normal use.

Other Protection: Wear Coveralls

Other hazards which do not result in classification: Do not store near flame, heat, or strong oxidizing agents. Avoid prolonged skin contact. Wash thoroughly after handling.

3. COMPOSITION / INFORMATION ON INGREDIENTS

APPEARANCE: Slight wax or paraffin odor, white speckled yellow pasty color, waxy feel, clumps easily formed and separated by hand at lower temperatures. Low density; appears to be heavier than actuality. Will float in water.

Chemical name	CAS#	Percent	EINECS/ELINCS
Paraffin Wax Fumes (if generated)	8002-74-2	N/A	N/A

4. FIRE FIGHTING MEASURES

Flash Point / Method: >232 deg C, 450 deg F (ASTM D-92)

Flammable: NA

Extinguished by: Foam, Water Fog, Water Spray, Dry Chemical, CO2

Special Fire Procedures: Cool exposed surfaces with water spray, while avoiding spreading any burning liquid. Remove any undamaged containers from fire area if you can do so without risk.

Unusual Fire/Explosion Hazard: None

5. ACCIDENTAL RELEASE MEASURES

Sweep up and package appropriately for disposal. In the case of a molten material spill, absorb with sand or other inert absorbent. Notify appropriate state/local agencies. Waste disposal should be in accordance with Federal, State, and local regulation.

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6. HANDLING AND STORAGE

Handling: Handle with care without damaging the products. Wash or wipe hands after handling. Avoid direct contact with eyes, skin, and clothing which may find difficult to remove the stains.

Storage:

Temperature : <30°C

General : Keep in a cool, dry, well ventilated place. Stable under normal conditions of handling and storage.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory: No special protection is needed working with solid material. Protection from fumes or vapors from molten material may be necessary, using a suitable filter-type respirator.

Eyes: Chemical goggles

Ventilation: None required under normal use.

Protective Gloves: None required under normal use.

Other Protection: Wear Coveralls

Exposure Limits:-

Ingredient	Weight %	Vapor Pressure mmHg 20F	OSHA PEL-TWA	ACGIH LV-TWA	313 Report Required
Paraffin Wax Fumes, Smoke (if Generated)	N/A	N/A	2.00 mg/m	2.00 mg/m	No

MATERIAL SAFETY DATA SHEET

8. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point Range:	N/A
Melting Point Range:	55-60 deg C, 130-140 deg F
Percent Volatile:	N/A
Vapor Pressure:	N/A
Evaporation Rate:	N/A
Vapor Density:	N/A
Appearance & Odor:	Slight waxy Odor, white speckled yellow color, waxy clumps
Solubility in Water:	Insoluble
Specific Gravity:	N/A

9. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Prolonged contact with strong oxidizing agents
Decomposition Hazard:	Thermal decomposition in air may yield carbon oxides, sulfur oxides, nitrogen
Polymerization Hazard:	None

10. DISPOSAL CONSIDERATIONS

Sweep up and package appropriately for disposal. In the case of a molten material spill, absorb with sand or other inert absorbent. Notify appropriate state/local agencies. Waste disposal should be in accordance with Federal, State, and local regulation.

MANUFACTURER DISCLAIMER:

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STACfill

HMIS & NFPA Hazard Ratings:

0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme

Health=0	Flammability=1	Reactivity=0
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: STACfill

Synonyms: Complex Mixture of paraffin waxes, polyisobutylene, calcium, silicate, Napthenic oils, fiber binders

General Use: For long-life corrosion protection, sealing and waterproofing of atmospheric buried and submerged metal surfaces. A complementary component of the STACsystem Specially suitable for profiling irregular surface in gas utility, sewer, potable water, mining, and wastewater applications, before applying over wrapping of STACwrap and STACguard.

Company Identification:

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MATERIAL SAFETY DATA SHEET

2. HAZARDS IDENTIFICATION

GHS Hazard Classification:

Hazard statements : Eyes: May cause discomfort
Ingestion: May cause irritation of digestive tract
Inhalation: N/A
Skin: N/A

Precautionary statements :

Respiratory: No special protection is needed working with semi-solid material. Protection from fumes or vapors from molten material is necessary, in case of fire, recommend using suitable filter-type respirator.

Eyes: Chemical goggles

Ventilation: None required under normal use.

Protective Gloves: None required, but preference may use rubber type gloves

Other Protection: Wear Coveralls

Other hazards which do not result in classification: Do not store near flame, heat, or strong oxidizing agents. Avoid prolonged skin contact. Wash thoroughly after handling.

3. COMPOSITION / INFORMATION ON INGREDIENTS

APPEARANCE: Slight wax odor, dark Blue/Grey color, readily formable and moldable by hand, easily separated and clumped together, within temperature ranges

Chemical name	CAS#	Percent	EINECS/ELINCS
Paraffin Wax Fumes (if generated)	8002-74-2	N/A	N/A

4. FIRE FIGHTING MEASURES

Flash Point / Method: >232 deg C, 450 deg F (ASTM D-92)

Flammable: NA

Extinguished by: Foam, Water Fog, Water Spray, Dry Chemical, CO2

Special Fire Procedures: Cool exposed surfaces with water spray, while avoiding spreading any burning liquid. Remove any undamaged containers from fire area if you can do so without risk.

Unusual Fire/Explosion Hazard: None

5. ACCIDENTAL RELEASE MEASURES

Sweep up and package appropriately for disposal. In the case of a molten material spill, absorb with sand or other inert absorbent. Notify appropriate state/local agencies. Waste disposal should be in accordance with Federal, State, and local regulation.

MATERIAL SAFETY DATA SHEET

6. HANDLING AND STORAGE

Handling: Handle with care without damaging the products. Wash or wipe hands after handling. Avoid direct contact with eyes, skin, and clothing which may find difficult to remove the stains.

Storage:

Temperature : <30°C

General : Keep in a cool, dry, well ventilated place. Stable under normal conditions of handling and storage.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory: No special protection is needed working with semi-solid material. Protection from fumes or vapors from molten material may be necessary using a suitable filter-type respirator.

Eyes: Chemical goggles

Ventilation: None required under normal use.

Protective Gloves: None required, Installer may prefer rubber gloves..

Other Protection: Wear Coveralls (clothing stains are difficult to remove)

Exposure Limits:-

Ingredient	Weight %	Vapor Pressure mmHg 20F	OSHA PEL-TWA	ACGIH LV-TWA	313 Report Required
Paraffin Wax Fumes, Smoke (if Generated)	N/A	N/A	2.00 mg/m	2.00 mg/m	No

MATERIAL SAFETY DATA SHEET

8. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point Range:	N/A
Melting Point Range:	60-85 deg C, 140-185 deg F
Percent Volatile:	N/A
Vapor Pressure:	N/A
Evaporation Rate:	N/A
Vapor Density:	N/A
Appearance & Odor:	Slight wax odor, dark Blue/Grey color, readily formable and moldable by hand, easily separated and clumped together, within temperature ranges.
Solubility in Water:	Insoluble
Specific Gravity:	N/A

9. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Prolonged contact with strong oxidizing agents
Decomposition Hazard:	Thermal decomposition in air may yield carbon oxides, sulfur oxides, nitrogen
Polymerization Hazard:	None

10. DISPOSAL CONSIDERATIONS

Sweep up and package appropriately for disposal. In the case of a molten material spill, absorb with sand or other inert absorbent. Notify appropriate state/local agencies. Waste disposal should be in accordance with Federal, State, and local regulation.

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MATERIAL SAFETY DATA SHEET

Date of issue: Dec 17, 2013, Revision #3

MATERIAL SAFETY DATA SHEET

STACguard E-AW

HMIS & NFPA Hazard Ratings:

0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme

Health=0	Flammability=0	Reactivity=0
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: STACguard E-AW (Catalyst)

Synonyms: Polyurethane Resin, suitable for applications above and around Water. Marine Ports and Harbors, Ocean Vessels, Recreational Boating, and Marina. Part A of 2 part Resin/Catalyst PU. Adheres to the STACwrap materials and hardens in place to leave and Highly Protected Anti-corrosion Solution in a Marine Environment.

General Use: Over wrapping protection of STACsystem products primarily serving mechanical protection, sealing and isolating petrolatum substrates specifically suited for Above Water application in Marine Settings. High degree of conformability and elasticity; tenacious adhesion to STAC materials over irregular surface profiles of hanging pipelines of gas, oil, and chemicals; as well as platform steel structures, conduits, and wiring trays, etc.

Company Identification:

Manufacturer:

Central Products (Tianjin) Co., Ltd.
B-H-E23 Houtai, Zhong Bei Industrial Park, Xiqing District
Tianjin 300384 P.R. China

Phone: +86-22-2379-3591

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MATERIAL SAFETY DATA SHEET

2. HAZARDS IDENTIFICATION

GHS Hazard Classification:

Hazard statements :

Eyes: Avoid contact, contact causes irritation
Ingestion: Avoid ingestion, may cause gastrointestinal irritation if swallowed
Inhalation: Avoid Inhalation, may cause sensitization if inhaled
Skin: Avoid prolonged contact, causes irritation and redness

Respiratory: No special protection required. Use respirator in none ventilated areas.
Eyes: Safety glasses with side shields or Chemical goggles
Ventilation: Adequate Ventilation Required
Protective Gloves: Chemical resistant gloves
Other Protection: Coveralls, and rubber boots may be necessary
Exposure Limits: N/A

Other hazards which do not result in classification: Do not store near flame, heat, or strong oxidizing agents. Avoid prolonged skin contact. Wash thoroughly after handling.

3. COMPOSITION / INFORMATION ON INGREDIENTS

APPEARANCE: Ammonia Odor, Green Heavy Paste Color

Chemical name	CAS#	Percent	EINECS/ELINCS
Compounded Resins	N/A	40-50	N/A
Polyaminoamide	68410-23-1	25-40	N/A
Dimethylaminomethyl Phenol	90-72-2	15-25	N/A

4. FIRE FIGHTING MEASURES

Flash Point / Method: 220C 430F
Flammable: N/A
Extinguished by: CO₂, Foam, Water Spray, Dry Chemical
Special Fire Procedures: Cool exposed surfaces with water spray, while avoiding spreading any burning liquid. Remove any undamaged containers from fire area if you can do so without risk. Use approved respirators when fighting fires.
Unusual Fire/Explosion Hazard: Can burn with preheating, and Maintaining flame. May cause lung damage if exposed to combustion, delayed edema reaction possible.
Decomposition Due to Fire: May release toxic chemicals

5. ACCIDENTAL RELEASE MEASURES

Sweep up and package appropriately for disposal. In the case of a molten material spill, absorb with sand or other inert absorbent. Notify appropriate state/local agencies. Waste disposal should be in accordance with Federal, State, and local regulation. Avoid contact with skin and eyes.

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6. HANDLING AND STORAGE

Handling: : Handle with care without damaging the products. Wash or wipe hands after handling. Avoid direct contact with eyes, skin, and clothing. Avoid prolonged breathing, Contaminated leather goods and shoes should be destroyed as residues can contain hazardous products. Fumes are very toxic, avoid preheating materials. Use appropriate respiration equipment if fumes or vapors are generated

Storage:

Temperature : Cool Dry areas, <25°C ambient temps

General : Store in cool, dry, well ventilated places, avoid open flames, high temperatures, Oxidizers and acids. Maintain closed/sealed containers.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory:	No special protection required. Use respirator in none ventilated areas.
Eyes:	Safety glasses with side shields or Chemical goggles
Ventilation:	Adequate Ventilation Required
Protective Gloves:	Chemical resistant gloves
Other Protection:	Coveralls, and rubber boots may be necessary
Exposure Limits:	N/A

MATERIAL SAFETY DATA SHEET

8. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point Range:	N/A
Melting Point Range:	N/A
Percent Volatile:	negligible
Vapor Pressure:	N/A
Evaporation Rate:	N/A
Vapor Density:	N/A
Appearance & Odor:	may smell like spoiled eggs
Solubility in Water:	Negligible
Specific Gravity:	ND (not determined)

9. STABILITY AND REACTIVITY

Stability:	Stable under normal use and storage conditions
Conditions to Avoid:	preheating materials
Decomposition Hazard:	Nitrogen oxides, carbon monoxideMay release toxic chemicals
Polymerization Hazard:	None

10. DISPOSAL CONSIDERATIONS

Sweep up and package appropriately for disposal. In the case of a molten material spill, absorb with sand or other inert absorbent. Notify appropriate state/local agencies. Waste disposal should be in accordance with Federal, State, and local regulation. Avoid contact with skin and eyes.

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MATERIAL SAFETY DATA SHEET

Date of issue: Dec 17, 2013, Revision #3

MATERIAL SAFETY DATA SHEET

STACguard E-AW

HMIS & NFPA Hazard Ratings:

0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme

Health=0	Flammability=0	Reactivity=0
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: STACguard E-AW (Resin)

Synonyms: Polyurethane Resin, suitable for applications above and around Water. Marine Ports and Harbors, Ocean Vessels, Recreational Boating, and Marina. Part A of 2 part Resin/Catalyst PU. Adheres to the STACwrap materials and hardens in place to leave and Highly Protected Anti-corrosion Solution in a Marine Environment.

General Use: Over wrapping protection of STACsystem products primarily serving mechanical protection, sealing and isolating petrolatum substrates specifically suited for Above Water application in Marine Settings. High degree of conformability and elasticity; tenacious adhesion to STAC materials over irregular surface profiles of hanging pipelines of gas, oil, and chemicals; as well as platform steel structures, conduits, and wiring trays, etc.

Company Identification:

Manufacturer:

Central Products (Tianjin) Co., Ltd.
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MATERIAL SAFETY DATA SHEET

2. HAZARDS IDENTIFICATION

GHS Hazard Classification:

Hazard statements :

Eyes: Avoid contact, contact causes irritation
Ingestion: Avoid ingestion, may cause gastrointestinal irritation if swallowed
Inhalation: Avoid Inhalation, may cause sensitization if inhaled
Skin: Avoid prolonged contact, causes irritation and redness

Respiratory: No special protection required. Use respirator in none ventilated areas.
Eyes: Safety glasses with side shields or Chemical goggles
Ventilation: Adequate Ventilation Required
Protective Gloves: Chemical resistant gloves
Other Protection: Coveralls, and rubber boots may be necessary
Exposure Limits: N/A

Other hazards which do not result in classification: Do not store near flame, heat, or strong oxidizing agents. Avoid prolonged skin contact. Wash thoroughly after handling.

3. COMPOSITION / INFORMATION ON INGREDIENTS

APPEARANCE: Odorless White Paste

Chemical name	CAS#	Percent	EINECS/ELINCS
Epoxy Resin Liquid Polymer (Bisphenol)	25068-38-6	100%	N/A

4. FIRE FIGHTING MEASURES

Flash Point / Method: >250 deg C, >500 deg F
Flammable: N/A
Extinguished by: CO2, Foam, Water Spray, Dry Chemical
Special Fire Procedures: Cool exposed surfaces with water spray, while avoiding spreading any burning liquid. Remove any undamaged containers from fire area if you can do so without risk. Use approved respirators when fighting fires.
Unusual Fire/Explosion Hazard: None
Decomposition Due to Fire: May release toxic chemicals

5. ACCIDENTAL RELEASE MEASURES

Sweep up and package appropriately for disposal. In the case of a molten material spill, absorb with sand or other inert absorbent. Notify appropriate state/local agencies. Waste disposal should be in accordance with Federal, State, and local regulation. Avoid Contact with skin and eyes.

MATERIAL SAFETY DATA SHEET

6. HANDLING AND STORAGE

Handling: Handle with care without damaging the products. Wash or wipe hands after handling.
Avoid direct contact with eyes, skin, and clothing.

Storage:

Temperature : Cool Dry areas, <25°C ambient temps

General : Store in cool, dry, well ventilated place, and in closed containers.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory: No special protection required. Use respirator in none ventilated areas.

Eyes: Safety glasses with side shields or Chemical goggles

Ventilation: Adequate Ventilation Required

Protective Gloves: Chemical resistant gloves

Other Protection: Coveralls, and rubber boots may be necessary

Exposure Limits: N/A

Ingredient	Vapor Pressure mmHg 20F	OSHA PEL-TWA	ACGIH LV-TWA	313 Report Required
Epoxy Resin Liquid Polymer	N/A	N/A	N/A	No

MATERIAL SAFETY DATA SHEET

8. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point Range:	>250C (>500F)
Melting Point Range:	N/A
Percent Volatile:	Negligible
Vapor Pressure:	ND (not determined)
Evaporation Rate:	N/A
Vapor Density:	N/A
Appearance & Odor:	Odorless Liquid Paste
Solubility in Water:	Negligible
Specific Gravity:	ND

9. STABILITY AND REACTIVITY

Stability:	Stable under normal use and storage conditions
Conditions to Avoid:	Mixing large volumes with epoxy curing agents, avoid high temps
Decomposition Hazard:	May release fumes and toxic chemicals when burned
Polymerization Hazard:	None

10. DISPOSAL CONSIDERATIONS

Sweep up and package appropriately for disposal. In the case of a molten material spill, absorb with sand or other inert absorbent. Notify appropriate state/local agencies. Waste disposal should be in accordance with Federal, State, and local regulation. Avoid contact with skin and eyes.

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MATERIAL SAFETY DATA SHEET

Date of issue: Nov 10, 2013, Revision #2

MATERIAL SAFETY DATA SHEET

STACguard RC

HMIS & NFPA Hazard Ratings:

0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme

Health=2	Flammability=0	Reactivity=0
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: STACguard RC

Synonyms: Rock Encasement outer coating for STACwrap. STACguard RC comes in Powder form. Add Water to activate curing. Brush directly onto the outer surface of applied STACwrap Tape. Hardens within a few hours to seal STACwrap corrosion protection layer to the steel surface. Once hardened, STACwrap RC can be painted.

General Use: Over wrapping protection of STACsystem products primarily serving mechanical protection, sealing and isolating petrolatum substrates in atmospheric, buried, and above water Marine environments. Mix with Water and brushed onto STAC surface. A high degree of conformability and elasticity; strong adhesion to STACwrap products. Provides a Rock Hard Encasement Mechanical Protection for securing the STACwrap application. Exposed Pipelines and Steel Structures in Factories, Hanging and Supported Pipelines and Conduits. Ideal for use in Chemical Plants and Marine Ports and Harbor Installations. Can be painted with standard paints.

Company Identification:

Manufacturer:

Central Products (Tianjin) Co., Ltd.
B-H-E23 Houtai, Zhong Bei Industrial Park, Xiqing District
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MATERIAL SAFETY DATA SHEET

2. HAZARDS IDENTIFICATION

GHS Hazard Classification:

Hazard statements :

Eyes: Avoid contact
Ingestion: Avoid ingestion
Inhalation: Avoid Inhalation
Skin: Avoid prolonged contact with tacky adhesive surface.

Precautionary statements :

Respiratory: Protection dust generated when working with Powder.
Normal precautions and use suitable filter-type respirator.
Eyes: Chemical goggles
Ventilation: None required under normal use.
Protective Gloves: Chemical resistant gloves
Other Protection: None required under normal use

Other hazards which do not result in classification: Do not store near water. *Avoid prolonged skin contact. Wash thoroughly after handling. Dispose of packaging materials and unapplied materials properly.*

3. COMPOSITION / INFORMATION ON INGREDIENTS

APPEARANCE: Gray/White Powder

Chemical name	CAS#	OSHA PEL	Percent	ACGIH TLV-TWA
Quartz (SiO ₂)	14808-60-7	10 mg/m ³	<1% Silica	0.025 mg/m ³ dust
Calcium Salts (CaCo)	65997-15-1	15 mg/m ³	80-90%	1 mg/m ³ dust
MgO,K ₂ SO ₄ ,Na ₂ SO ₄		N/A	Trace amounts	N/A

4. FIRE FIGHTING MEASURES

Flash Point / Method: None combustible, none explosive
Flammable: None combustible, none explosive
Extinguished by: N/A
Special Fire Procedures: None combustible. Recommend using self contained breathing apparatus if fighting any fires.
Unusual Fire/Explosion Hazard: None

5. ACCIDENTAL RELEASE MEASURES

Sweep up and package appropriately for disposal. Notify appropriate state/local agencies. Waste disposal should be in accordance with Federal, State, and local regulation.

MATERIAL SAFETY DATA SHEET

6. HANDLING AND STORAGE

Handling: Handle with care without damaging the products. Wash or wipe hands after handling. Avoid direct contact with eyes, skin, and clothing (difficult to remove stains).

Storage:

Temperature : avoid water and humid environment, reasonable temps okay, <30°C

General : Store in cool, dry, well ventilated place. Stable under normal conditions of handling and storage. Kept in sealed containers, and low humidity.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory: Material is powder and will dust. Proper handling of powders to avoid inhaling. Use appropriate respirators. May irritate the lungs.

Eyes: Chemical goggles

Ventilation: None required under normal use. Avoid dusting issues, when handling powder.

Protective Gloves: Chemical resistant gloves

Other Protection: Wear Coveralls, wet material can cause burns if exposed to the skin and not detected. Care should be taken to avoid skin and eye contact.

Exposure Limits:-

Chemical name	CAS#	OSHA PEL	Percent	ACGIH TLV-TWA
Quartz (SiO ₂)	14808-60-7	10 mg/m ³	<1% Silica	0.025 mg/m ³ dust
Calcium Salts (CaCo)	65997-15-1	15 mg/m ³	80-90%	1 mg/m ³ dust
MgO,K ₂ SO ₄ ,Na ₂ SO ₄		N/A	Trace amounts	N/A

8. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point Range:	N/A
Melting Point Range:	N/A
Percent Volatile:	N/A
Vapor Pressure:	N/A
Evaporation Rate:	N/A
Vapor Density:	N/A
Appearance & Odor:	Gray Powder, No Odor
Solubility in Water:	Soluble slight (0.1-1.0%)
Specific Gravity:	(H ₂ O=1) 2.9-3.1

MATERIAL SAFETY DATA SHEET

9. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions
Conditions to Avoid:	N/A
Decomposition Hazard:	None under normal storage and use
Polymerization Hazard:	N/A

10. DISPOSAL CONSIDERATIONS

Sweep up and package appropriately for disposal. Notify appropriate state/local agencies. Waste disposal should be in accordance with Federal, State, and local regulation.

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MATERIAL SAFETY DATA SHEET

STACguard

HMIS & NFPA Hazard Ratings:

0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme

Health=0	Flammability=1	Reactivity=0
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: STACguard, STACguard Y

Synonyms: PVC Adhesive Tape, Utility Tape, Polyvinyl Chloride (PVC) carrier with thin layer of polymeric/resin adhesives, integrated releasing mechanism

General Use: Over wrapping protection of STACsystem products primarily serving mechanical protection, sealing and isolating petrolatum substrates in atmospheric, buried, and submerged environments. Has a high degree of conformability and elasticity and adhesion allowing application over irregular surface profiles including gas utility, sewer, potable water, mining, and wastewater applications.

Company Identification:

Manufacturer:

Central Products (Tianjin) Co., Ltd.
B-H-E23 Houtai, Zhong Bei Industrial Park, Xiqing District
Tianjin 300384 P.R. China

Phone: +86-22-2379-3591

Importer:

PTY Enterprises
2201 Harbor St, Unit C
Pittsburg, CA 94565 USA

Phone: +1-510-414-9924

For emergencies in U.S.A., Call: +1-510-414-9924

MATERIAL SAFETY DATA SHEET

2. HAZARDS IDENTIFICATION

GHS Hazard Classification:

Hazard statements :

Eyes: Avoid contact
Ingestion: Avoid ingestion
Inhalation: N/A
Skin: Avoid prolonged contact with tacky adhesive surface.

Precautionary statements :

Respiratory: No special protection is needed working with solid material. Protection from fumes or vapors from molten material may be necessary, using a suitable filter-type respirator.
Eyes: Chemical goggles
Ventilation: None required under normal use.
Protective Gloves: None required under normal use; wear suitable gloves if highly sensitive skin
Other Protection: None required under normal use

Other hazards which do not result in classification: Do not store near flame, heat, or strong oxidizing agents. Avoid prolonged skin contact. Wash thoroughly after handling.

3. COMPOSITION / INFORMATION ON INGREDIENTS

APPEARANCE: Black, Yellow, or Colored Solid Tape, with low tack Adhesive single side

Chemical name	CAS#	Percent	EINECS/ELINCS
PVC Plasticized Film	N/A	N/A	N/A
Synthetic Rubber/Resin Adhesives	N/A	N/A	N/A

4. FIRE FIGHTING MEASURES

Flash Point / Method: >180 deg C, 356 deg F (ASTM D-92)
Flammable: With sufficient Heat and Flame, material will smoke, ignite, melt, flow
Extinguished by: Foam, Water Fog, Water Spray, Dry Chemical, CO2
Special Fire Procedures: Cool exposed surfaces with water spray, while avoiding spreading any burning liquid. Remove any undamaged containers from fire area if you can do so without risk.
Unusual Fire/Explosion Hazard: None

5. ACCIDENTAL RELEASE MEASURES

Sweep up and package appropriately for disposal. In the case of a molten material spill, absorb with sand or other inert absorbent. Notify appropriate state/local agencies. Waste disposal should be in accordance with Federal, State, and local regulation.

MATERIAL SAFETY DATA SHEET

6. HANDLING AND STORAGE

Handling: Handle with care without damaging the products. Wash or wipe hands after handling.
Avoid direct contact with eyes, skin, and clothing (difficult to remove stains).

Storage:

Temperature : <30°C, tackiness increases with higher temperatures

General : Store in cool, dry, well ventilated place. Stable under normal conditions of handling and storage.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory: No special protection is needed working with solid material.
Protection from fire producing fumes, smoke, or vapors from molten material necessary using a suitable filter-type respirator.

Eyes: Chemical goggles

Ventilation: None required under normal use.

Protective Gloves: None required under normal use.

Other Protection: Wear Coveralls

Exposure Limits:-

Ingredient	Vapor Pressure mmHg 20F	OSHA PEL-TWA	ACGIH LV-TWA	313 Report Required
Smoke, Hydrogen Chloride (if Generated)	N/A	N/A	N/A	No

MATERIAL SAFETY DATA SHEET

8. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point Range:	N/A
Melting Point Range:	100-130 deg C, 212-266 deg F
Percent Volatile:	N/A
Vapor Pressure:	N/A
Evaporation Rate:	N/A
Vapor Density:	N/A
Appearance & Odor:	Slight Odor Resin adhesive, PVC Film with Selected Colorants
Solubility in Water:	Insoluble
Specific Gravity:	N/A

9. STABILITY AND REACTIVITY

Stability:	Chemically Stable
Conditions to Avoid:	Film Softening from Prolonged contact with strong organic solvents – kerosene, gasoline
Decomposition Hazard:	UV degradation, Hydrogen Chloride from PVC above 100 deg C
Polymerization Hazard:	None

10. DISPOSAL CONSIDERATIONS

Sweep up and package appropriately for disposal. In the case of a molten material spill, absorb with sand or other inert absorbent. Notify appropriate state/local agencies. Waste disposal should be in accordance with Federal, State, and local regulation.

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MATERIAL SAFETY DATA SHEET

Date of issue: Oct 10, 2011, Revision #3

MATERIAL SAFETY DATA SHEET

STACprime

HMIS & NFPA Hazard Ratings:

0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme

Health=1	Flammability=1	Reactivity=0
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: STACprime (Petrolatum Paste)

Synonyms: Complex Mixture of paraffin waxes, polyisobutylene, calcium, silicate, Napthenic oils, N-Tallow Alktrimethylenediamines

General Use: Component part of long-life corrosion protection system; sealing and waterproofing of atmospheric buried and submerged metal surfaces. The high degree of conformability allows for application over irregular surface profiles including gas utility, sewer, potable water, mining, and wastewater applications. Paste is spread on metal surfaces and worked into pits as surface preparation for corrosion protection layer.

Company Identification:

Manufacturer:

Central Products (Tianjin) Co., Ltd.
B-H-E23 Houtai, Zhong Bei Industrial Park, Xiqing District
Tianjin 300384 P.R. China

Phone: +86-22-2379-3591

Importer:

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Pittsburg, CA 94565 USA

Phone: +1-510-414-9924

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MATERIAL SAFETY DATA SHEET

2. HAZARDS IDENTIFICATION

GHS Hazard Classification:

Hazard statements : Eyes: May cause discomfort
Ingestion: May cause irritation of digestive tract
Inhalation: N/A
Skin: May cause slight skin irritations or absorption on prolonged exposures.

Precautionary statements :

Respiratory: No special protection is needed working with solid material. Protection from fumes or vapors from molten material may be necessary, using a suitable filter-type respirator.
Eyes: Chemical goggles
Ventilation: None required under normal use.
Protective Gloves: Use grease resistant gloves to avoid skin irritation and absorption from prolonged contact.
Other Protection: Wear Protective Coveralls to avoid oil soiling of clothing.

Other hazards which do not result in classification: Do not store near flame, heat, or strong oxidizing agents. Avoid prolonged skin contact. Wash thoroughly after handling.

3. COMPOSITION / INFORMATION ON INGREDIENTS

APPEARANCE: Soft Oily Paste, Slight Odor, Heavy Brown Color

Chemical name	CAS#	Percent	EINECS/ELINCS
Paraffin Wax Fumes (if generated)	8002-74-2	N/A	N/A
N-Tallow Alkyltrimethylenediamines	61791-53-5	N/A	N/A

4. FIRE FIGHTING MEASURES

Flash Point / Method: >205 deg C, 400 deg F (ASTM D-92)
Flammable: N/A
Extinguished by: Carbon Dioxide (CO₂), Foam, Water Fog, Dry Chemical
Special Fire Procedures: Wear self container breathing gear when fighting fire in confined spaces. Cool exposed surfaces with water spray, while avoiding spreading any burning liquid. Remove any undamaged containers from fire area if you can do so without risk.
Unusual Fire/Explosion Hazard: None

5. ACCIDENTAL RELEASE MEASURES

Sweep up and package appropriately for disposal. In the case of a molten material spill, absorb with sand or other inert absorbent. Notify appropriate state/local agencies. Waste disposal should be in accordance with Federal, State, and local regulation.

MATERIAL SAFETY DATA SHEET

6. HANDLING AND STORAGE

Handling: Handle with care without damaging the products. Wash or wipe hands after handling. Avoid direct contact with eyes, skin, and clothing which may find difficult to remove the stains.

Storage:

Temperature : <30°C

General : Keep in a cool, dry, well ventilated place. Stable under normal conditions of handling and storage.

Oil Separation : Oil may separate from the mixture within the pales during extended storage at higher temperatures. Separated Oil can be mixed back into product by using hand or paddle without degradation.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory: No special protection is needed working with solid material. Protection from fumes or vapors from molten material may be necessary, using a suitable filter-type respirator.

Eyes: Chemical goggles

Ventilation: None required under normal use.

Protective Gloves: Use grease resistant gloves to avoid skin irritation and absorption from prolonged contact.

Other Protection: Wear Protective Coveralls

Exposure Limits: N/A

Ingredient	Weight %	Vapor Pressure mmHg 20F	OSHA PEL-TWA	ACGIH LV-TWA	313 Report Required
Paraffin Wax Fumes if Generated	N/A	N/A	2.00 mg/m	2.00 mg/m	No
N-Tallow Alktrimethylene diamines	<1	N/A	N/A	N/A	No

The product contains no chemicals listed as carcinogens or potential carcinogens.

NTP: None

IARC: None

OSHA: None

MATERIAL SAFETY DATA SHEET

8. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point Range:	N/A
Melting Point Range:	N/A
Percent Volatile:	N/A
Vapor Pressure:	N/A
Evaporation Rate:	N/A
Vapor Density:	N/A
Appearance & Odor:	Soft Oily Paste, Heavy Brown Color, Slight odor
Solubility in Water:	Negligible to Insoluble
Specific Gravity:	1.03

9. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Contact with Strong Oxidizers and Agents
Decomposition Hazard:	Thermal decomposition in air may yield carbon monoxide and Asphyxiate
Polymerization Hazard:	None will occur

10. DISPOSAL CONSIDERATIONS

Material is solid at room temperatures. Absorb, Sweep up, and package appropriately for disposal. Absorb with sand, talc, or other inert absorbent. In the case of a molten material spill, absorb with sand or other inert absorbent. Notify appropriate state/local agencies. Waste disposal should be in accordance with Federal, State, and local regulation. Use grease resistant gloves to avoid skin irritation.

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MATERIAL SAFETY DATA SHEET

Date of issue: Oct 10, 2011, Revision #3

MATERIAL SAFETY DATA SHEET

STACwrap

HMIS & NFPA Hazard Ratings:

0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme

Health=0

Flammability=1

Reactivity=0

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: STACwrap (Petrolatum Tape)

Synonyms: Complex Mixture of paraffin waxes, polyisobutylene, calcium, silicate, Napthenic oils, plastic-fiber felt and petroleum derived hydrocarbon base

General Use: For long-life corrosion protection, sealing and waterproofing of atmospheric buried and submerged metal surfaces. The high degree of conformability allows for application over irregular surface profiles including gas utility, sewer, potable water, mining, and wastewater applications.

Company Identification:

Manufacturer:

Central Products (Tianjin) Co., Ltd.
B-H-E23 Houtai, Zhong Bei Industrial Park, Xiqing District
Tianjin 300384 P.R. China

Phone: +86-22-2379-3591

Importer:

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MATERIAL SAFETY DATA SHEET

2. HAZARDS IDENTIFICATION

GHS Hazard Classification:

Hazard statements : Eyes: May cause discomfort
Ingestion: May cause irritation of digestive tract
Inhalation: N/A
Skin: N/A

Precautionary statements :

Respiratory: No special protection is needed working with solid material. Protection from fumes or vapors from molten material may be necessary, using a suitable filter-type respirator.
Eyes: Chemical goggles
Ventilation: None required under normal use.
Protective Gloves: None required under normal use.
Other Protection: Wear Coveralls

Other hazards which do not result in classification: Do not store near flame, heat, or strong oxidizing agents. Avoid prolonged skin contact. Wash thoroughly after handling.

3. COMPOSITION / INFORMATION ON INGREDIENTS

APPEARANCE: Odorless, dark yellow/ brown, waxy

Chemical name	CAS#	Percent	EINECS/ELINCS
Paraffin Wax Fumes (if generated)	8002-74-2	N/A	N/A

4. FIRE FIGHTING MEASURES

Flash Point / Method: >232 deg C, 450 deg F (ASTM D-92)
Flammable: NA
Extinguished by: Foam, Water Fog, Water Spray, Dry Chemical, CO2
Special Fire Procedures: Cool exposed surfaces with water spray, while avoiding spreading any burning liquid. Remove any undamaged containers from fire area if you can do so without risk.
Unusual Fire/Explosion Hazard: None

5. ACCIDENTAL RELEASE MEASURES

Sweep up and package appropriately for disposal. In the case of a molten material spill, absorb with sand or other inert absorbent. Notify appropriate state/local agencies. Waste disposal should be in accordance with Federal, State, and local regulation.

MATERIAL SAFETY DATA SHEET

6. HANDLING AND STORAGE

Handling: Handle with care without damaging the products. Wash or wipe hands after handling. Avoid direct contact with eyes, skin, and clothing which may find difficult to remove the stains.

Storage:

Temperature : <30°C

General : Keep in a cool, dry, well ventilated place. Stable under normal conditions of handling and storage.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory: No special protection is needed working with solid material. Protection from fumes or vapors from molten material may be necessary, using a suitable filter-type respirator.

Eyes: Chemical goggles

Ventilation: None required under normal use.

Protective Gloves: None required under normal use.

Other Protection: Wear Coveralls

Exposure Limits:-

Ingredient	Weight %	Vapor Pressure mmHg 20F	OSHA PEL-TWA	ACGIH LV-TWA	313 Report Required
Paraffin Wax Fumes if Generated	N/A	N/A	2.00 mg/m	2.00 mg/m	No

MATERIAL SAFETY DATA SHEET

8. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point Range:	N/A
Melting Point Range:	60-85 deg C, 140-185 deg F
Percent Volatile:	N/A
Vapor Pressure:	N/A
Evaporation Rate:	N/A
Vapor Density:	N/A
Appearance & Odor:	Odorless, pale yellow color, waxy
Solubility in Water:	Insoluble
Specific Gravity:	0.8-0.9

9. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Prolonged contact with strong oxidizing agents
Decomposition Hazard:	Thermal decomposition in air may yield carbon oxides, sulfur oxides, nitrogen
Polymerization Hazard:	None

10. DISPOSAL CONSIDERATIONS

Sweep up and package appropriately for disposal. In the case of a molten material spill, absorb with sand or other inert absorbent. Notify appropriate state/local agencies. Waste disposal should be in accordance with Federal, State, and local regulation.

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