UNITHERM international inc.

PTFE Heating Cable

MSDS Number: HE&C-080910
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Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Company Identification

UniTherm International Inc.
711 Jones Street
Lewisville, Texas 75057

EMERGENCY TELEPHONE NUMBER:
For emergency involving spill, leak, fire, exposure, or accident call CHEMTREC (800) 424-9300, day or night

Product Identification

Product Name: PTFE Heating Cable
Common Name(s):

2. HAZARDS IDENTIFICATION

Invasion Method: /

Health Hazard: 1) This product is nontoxic. But it produce pyrolysis gas at high temperature which can cause poisoning. The poisoning symptoms are like: short of breath, fever, cough, cyanosis and tremble, they are temporary and similar to getting a cold. 2)If the cables overload long time when working, it may appear leakage and short circuit problems, etc.

The simple of high-temperature pyrolysis gas will appear in two hours and will last 36-48 hours. There is no related articles report how continuous or cumulative inhalation will effect.

Environmental Hazard: /
Combustion Hazard: noncombustible

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure[ ] **Mixed**[√]

Chemicals Name: Teflon Twin Conductor Heating Cable

Injurious Ingredient	Content	CAS No
/	100% (qualified product)	25067-11-2

4. FIRST AID MEASURES

Skin Contact: if the skin touches the hot resin melt of cable surface, immediately use cold water to wash the skin and go hospital. If there is electric leakage when cable works, Turn off the power immediately and take emergency treatments according to the situation. Severe people should be sent to hospital.

Eye Contact: immediately filed eyelid accidentally gets in the eyes with plenty of water rinse, then go hospital for treatment.

Inhalation: quickly get out there to air freshening place, keeps breathing smoothly. Perform oxygen therapy once hard to breach. Perform artificial respiration once breathing stop and then go to hospital.

Ingestion: /

5. FIRE FIGHTING MEASURES

Hazardous Characteristics:

1) The cable heat stability is excellent, no decomposition below 380 °F but less pyrolysis gas over 380 °F after long time heating and more pyrolysis gas over 420 °F. The pyrolysis gas will cause poisoning.

2) The cable has ground wire itself. No current leakage and short circuit under normal use. If overload in a long time, may cause current leakage and short circuit even fire accident.

Hazardous Combustion Products: carbon monoxide, carbon dioxide, hydrogen fluoride, erfluoroisobutylene (PFIB), fluorophosgene.

Method of Extinguishing: The cable is noncombustible. But in order to prevent from being heated and decomposition and produce poisonous gas, spray water to cool them and possible take them outside from fire ground.

Fire Extinguishing Agent: spray water, dry powder, sand, foam, carbon dioxide.
Matters need attention: firefighters have to wear protective whole body suit, self-contained or positive pressure respirator.

6. ACCIDENTAL RELEASE MEASURES

Emergency processing: Turn off the power and evacuate people immediately. Arrange or contact people in charge to control the situation. If there is anyone gets a electric shock or poisonous, take emergency treatments according to the situation. Severe people should be sent to hospital.

7. HANDLING AND STORAGE

Operation Cautions: When use the cable to processing and manufacturing, Processing and manufacturing area should be airtight and total exhaust. Operator is well trained and hew to operating instruction. Do not damage the cable during the process.

Storage Cautions: Store at cool and ventilate and be far away from sunshine in summer. Keep cable separate from oxidant and edible chemicals. Handle with care when

carrying.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Maximum Allowable Concentration: Pointless

Detection Method: /

Engineering Control: enclosed operation, total exhaust. As mechanized and automated as possible.

Respiratory Protection: Avoid breathing in the high-temperature pyrolysis gas during the processing and manufacturing. If the cable cause any pyrolysis gas, use full-face positive pressure air breathing apparatus.

Eye Protection: avoid eye exposure, wear a protection glass with sheath.

Body Protection: wear normal work clothes.

Hand Protection: wear suitable gloves.

Others: No smoking and pay attention to personal hygiene.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Shape: round blue wire, scentless
Melting Point: getting soft above 300°F
Boiling Point: pointless
Density: /
Proportion: no data
Vapor Pressure: pointless
Octanol / Water distribution coefficient of value: pointless
Heat of Combustion (KJ/mol): pointless
Stagnation Temperature: pointless
Critical Pressure(MPa): pointless
Flash Point: pointless
Upper Explosive Limit% (V/V): pointless
Lower Explosive Limit% (V/V): pointless
Solubleness: poorly soluble in water, acetone, ethanol
Main Application: underfloor heating, snow melting, heat tracking in industries, etc.

10. STABILITY AND REACTIVITY

Stability: stable
Prohibited material: Flammable or combustible material

Harm of polymerization: not polymerized

Conditions of avoiding exposure: alkalis and alkaline rare earth metals, react with its metal powder below 370 °F.

Decomposition product: carbon monoxide, carbon dioxide, hydrogen fluoride, erfluoroisobutylene (PFIB), fluorophosgene.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity Test: **LD50:** No data; **LC50:** No data
Irritant: No data

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data
Biodegradability: No data
Abiotic degradability: No data
Other harmful factors: No data

13. DISPOSAL CONSIDERATIONS

Nature of the waste: no hazardous waste number in China, USA, EPA

Disposal Information: waste recycle, unrenewable wast landfill according to country and local laws and rules.

Waste Cautions: in the case of existing inflammables or Combustibles, high-temperature incineration will cause HF.

14. TRANSPORT INFORMATION

Dangerous Goods Code: /
UN Code: /
Packing mark: /
Categories of packing: Class
Packing method: inner package: plastic bag, outer package, carton box
Transport cautions: far away from sunshine. Handle with care when carrying.

15. REGULATORY INFORMATION

Law Information: (Hazardous Chemical Materials Safety Management Regulations) (People's Republic of China State Council Decree 344, from March 15, 2002 implementation). (Workplace Safe Use of Chemicals) ([1996] labor department No. 423) and other regulations, make corresponding provisions for safe use, production, storage, handling and other aspects of hazardous chemicals.

(Commonly Used Classification of Dangerous Chemicals and Signs) (GB13690—1992)

16. OTHER INFORMATION

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