MATERIAL SAFETY DATA SHEET
SPILFYTER Products
M Series Sorbents
Revision Date: 2/20/2008
MSDS No. 1012

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product number:	M Series
Product name:	PREMIUM OIL ONLY Sorbent Products
Manufacturer	NPS Corporation 3303 Spirit Way Green Bay, WI 54304
Emergency Telephone Numbers:	
CHEMTREC-Domestic	(800) 424-9300 24 hrs
International	(202) 483-7616 24 hrs
Information	(800) 558-5066 7:30 am - 4:30 pm CDT M-F

SECTION 2. Composition/Information on Ingredients

CAS Registry #	Component	
9003-07-0	Polypropylene	99.7%
	Particulate or Fabric	0.3%
	Blue Pigment	

(NOTE: See Section 8 of this MSDS for Exposure Guidelines)

Section 3. Hazards Identification

Emergency overview	Odorless, white or colored fabric or particulate. This material presents little or no hazard if spilled and exhibits no unusual fire hazard.
Potential health effects	
Eyes:	Direct contact may cause irritation.
Inhalation:	Exposure to dust levels exceeding the PEL (see section 8) may cause irritation of the upper respiratory system. Breathing dust may aggravate acute or chronic asthma or other chronic pulmonary diseases.
Signs and symptoms:	Eyes: Redness, Tearing Inhalation: Dry cough, labored breathing during exertion

Section 4. First Aid Measures

Eyes:	Immediately flush with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.
Skin:	Brush off excess fibers with dry towel. Wash affected area with plenty of soap and water for several minutes. If skin irritation develops or persists, seek medical attention.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
NOTE:	If burned through contact with molten material, cool as quickly as possible with water and seek medical attention. Do not attempt to remove the cooled molten material.

Section 5. Fire Fighting Measures

Flash Point:	>625 F
Flammable Limits:	NA
Auto-ignition Temperature:	>675 F
NOTE:	This material will burn, but it is difficult to ignite
Extinguishing Media:	Water spray, ABC dry chemical, foam or carbon dioxide. Use water fog or spray to cool exposed equipment and containers.
Special Fire Fighting Procedures:	For large fires or fires in confined areas, full emergency equipment with self-contained breathing apparatus and full protective clothing should be used. Thermal decomposition of this product may produce hazardous and irritating gases. See Section 10.

Section 6. Accidental Release Measures
Unused material can be shoveled, swept or vacuumed and recycled for use. Avoid generating airborne dust.
If used material is released or spilled, see Section 13.

Section 7. Handling and Storage

Store at room temperature in a dry area. When handling, avoid the generation of airborne dust. Storage for extended periods (>30 days) at temperatures > 150 F may cause decomposition. This material produces an electrostatic accumulation hazard. Use proper grounding/bonding procedures.

Section 8. Exposure Controls/Personal Protection

Exposure limits:	None specifically developed for this product; treated as a nuisance dust as defined in 29 CFR 1910.1000.
OSHA PEL:	Total Dust is 15 mg/M3 Respirable Fraction is 5 mg/M3

ACGIH TLV is 10 mg/M3.
The end-user must determine the specific types of personal protective equipment needed according to 29 CFR 1910.132-Personal Protective Equipment (PPE) for General Industry. The following are only suggestions:

Eyes:	Safety glasses or goggles
Skin:	Work gloves

Adequate ventilation should be provided to limit the amount of airborne dust.

Section 9. Physical and Chemical Properties

Appearance:	White or colored fabric or particulate
Odor:	Odorless
Boiling point:	NA
Vapor pressure (mmHg):	NA
Vapor Density:	NA
Solubility in Water:	Insoluble
Specific Gravity (H2O=1):	0.90
Melting Point:	>320 F
pH:	NA
Evaporation Rate (Butyl Acetate=1):	NA
% Vaporizable by volume (H2O=100):	<0.4

Section 10. Stability and Reactivity

Stable:	Yes
Conditions to Avoid:	See Section 7
Incompatibility (Materials to Avoid):	Avoid contact with hot or concentrated nitric and perchloric acids, and fuming sulfuric acid at temperatures >140 F
Hazardous Decomposition or Byproducts:	Thermal decomposition produces carbon monoxide, carbon dioxide, methane, acetone and other ketones.
Hazardous Polymerization:	Will not occur

Section 11.Toxicological Information
This product is not listed by NTP or IARC. See Section 15.

Section 12. Ecological Information
No data available. See Section 15.

Section 13.Disposal Considerations
This product in itself is considered to be non-hazardous as defined by RCRA (40 CFR 261). Once used, this product will take on the characteristics of the chemical sorbed and should be disposed of accordingly. Disposal of this product (used or unused) must be in compliance with all local, state and federal regulations.

Section 14. Transport Information
This product is not a DOT Hazardous Material and is not regulated for all shipping purposes.

Section 15. Regulatory Information
This product does not meet the definition of a hazardous chemical given in 29 CFR 1910.1200 (OSHA).
TSCA Inventory Status: All components are listed on the TSCA list.
SARA Title III

Section 302 Extreme Hazardous Substance List:	Not listed

Section 311/312 Hazard Classification:
Immediate (acute): No
Delayed (chronic): No
Fire: No
Sudden Release of Pressure: No
Reactive: No
Section 313 Toxic Chemicals: Not listed

USEPA CERCLA-Reportable Quantity (RQ): Not listed
RCRA Hazardous Waste: Not listed
State/Int'l Right-to-Know Regulations: Not listed

Section 16. Other Information

Abbreviations:

CFR:	Code of Federal Regulations
OSHA:	Occupational Safety and Health Administration
MSDS:	Material Safety Data Sheet
PEL:	Permissible Exposure Limit
NA:	Not applicable
ACGIH:	American Conference of Governmental Industrial Hygienists
TLV:	Threshold Limit Value
NTP:	National Toxicology Program
IARC:	International Agency for Research on Cancer
RCRA:	Resource Conservation and Recovery Act
TSCA:	Toxic Substances Control Act
SARA:	Superfund Amendments and Reauthorization Act
USEPA:	United State Environmental Protection Agency
CERCLA:	Comprehensive Response, Compensation and Liability Act
DOT:	Department of Transportation
NFPA:	National Fire Protection Association
HMIS:	Hazardous Material Information System

NFPA RATINGS:	HMIS RATINGS:
Health: 0	Health: 0
Fire: 1	Flammability: 1
Reactivity: 0	Reactivity: 0
Special Hazard: None	Personal Protection: NA

NOTE: This MSDS has been prepared only for the Premium Oil Only Sorbent Products (M Series) of SPILFYTER Products. The MSDS's of the chemicals used with this product must be reviewed completely and precautions taken as described.
The information accumulated herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, NPS Corporation cannot give guarantees regarding the information from sources, and expressly does not make any warranties, nor assumes any liability for its uses of this product.

Disclaimer
You have purchased SPILFYTER products from NPS Corporation
You have been provided data, product labels, MSDS's and other information about SPILFYTER Products.

Some SPILFYTER Products are hazardous. Information about SPILFYTER Products that are hazardous is furnished without guarantee. NPS Corporation does not guarantee the accuracy of the information about hazardous SPILFYTER Products.

Those products are only to be used by people having expertise in using the hazardous products.

The information provided about hazardous products is believed to be correct. You must perform your investigation as to the safety, toxicity, suitability and proper shipping method for any hazardous SPILFYTER product.

No guarantee, expressed or implied, is made by NPS Corporation about the results of use of its products. No guarantee is made as to the safety and toxicity of any SPILFYTER Product.

NPS Corporation does not assume any liability arising out of use of SPILFYTER Products. Additional information and research may be necessary before you use the SPILFYTER Products. NPS Corporation is not responsible for damages, direct or indirect, resulting from the use of SPILFYTER Products or from reliance on data in the MSDS or product label.

If you resell SPILFYTER Products, you must by law furnish your customers a copy of MSDS's and handling instructions.

You are also required by law to insure that all SPILFYTER Products are properly shipped.

GLOBE INDUSTRIES CORPORATION
MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION DATE: MAY 15, 2000
Trade Name: PVC Adhesive Tape
Chemical Name: Polyvinyl chloride Adhesive Tape
Components: This material is composed by the following ingredients:
Substrate: Plasticized Polyvinyl - chloride film
Primer: Synthetic rubber, Monomer, Accelerator
Adhesive: Natural rubber base adhesive
Manufacturer's Name: Globe Industries Corporation
Address: 7F. No. 61, sec 3, Nan-King East Road, Taipei, Taiwan, R.O.C.
Phone No: 886-2-2506-6666
Fax No. 886-2-2507-9988
EMERGENCY CONTACT PHONE NO. - 800-255-3924 with the United States
813-248-0585 outside of the United States

SECTION II - PHYSICAL DATA

Boiling Point: N/A
Vapor Pressure (mm Hg): N/A
Solubility in Water: Not Soluble
Appearance and Odor: Solid Plastic Roll,
Specific Gravity: 1.20~1.60
Percent Volatile: Below 2.0
Evaporation Rate: N/A
Slight Characteristic Odor
*N/A: No applicable information found.

SECTION III - FIRE HAZARD DATA

Because PVC compounds contain chlorine in the polymer molecule, these materials are difficult to ignite. Like all organic materials, this product is combustible and will burn by application of intense heat. Protect from open flame and maintain proper clearance when using heating devices, etc.

UNUSUAL FIRE HAZARD
Static sparking can occur during processing. Flammable materials should be Removed from the immediate vicinity or controlled. The use of static suppressants and grounding devices is recommended.
When burned the hazardous decomposition products that will result because of incomplete combustion include carbon monoxide, other unidentified products of hydrocarbon degradation, NOx, low-level cyanides and hydrogen chloride.

EXTINGUISHING MEDIA
Dry chemical, foam, water fog or spray.

SPECIAL FIRE FIGHTING PROCEDURES
Wear full protective equipment and NIOSH approved pressure demand, self-contained breathing apparatus.

SECTION IV - REACTIVITY DATA

Chemical Stability: Stable
Hazardous Polymerization: Will Not Occur
Hazardous Decomposition: Hydrogen chloride, carbon monoxide, low-level cyanides and NOx, and other unidentified products of hydrocarbon degradation.

SECTION V - HAZARDOUS INGREDIENTS

Plasticized PVC tape is composed of rubber, resin, plasticizers, stabilizers, processing aides, modifiers, pigments, inerts, and residual solvent, as do most plastic products contains chemicals which can be hazardous. These chemicals, however, are mixed and bound in the plastic and not release except under extreme circumstance such as fire.

POTENTIALLY TOXIC INGREDIENTS

Ingredient	%	ACGIH TLV	OSHA	PEL
Cadmium	<0.2	0.05 mg/m3	0.2	mg/m3
Lead	<5.0	0.15 mg/m3	0.05	mg/m3
Antimony	<3.5	0.5 mg/m3	0.5	mg/m3
Chromates	<2.0	0.05 mg/m3	0.1	mg/m3
Organic Plasticizers	<45	3 mg/m3	.3	mg/m3
Aliphatic Hydrocarbons	<2.5	2000 mg/m3	500	ppm

SECTION VI - HEALTH HAZARD DATA

EFFECTS OF OVER EXPOSURE

ACUTE:
Vapors and fumes from processing (especially at elevated temperatures) may

cause irritation of the eyes, nose, throat and upper respiratory tract.
CHRONIC:

The following materials are well encapsulated components of the product and are not believed to constitute an exposure hazard under traditional handling conditions.

LEAD:
The early effects of lead poisoning are nonspecific and, except by laboratory testing are difficult to distinguish from the symptoms of minor seasonal illness. The symptoms are deceased physical fitness, fatigue, sleep disturbance, headache, aching bones and muscles, digestive symptoms (Particularly constipation), abdominal pains and decreased appetite. These systems are reversible complete recovery is possible.

ANTIMONY:
Antimony compounds are generally less toxic than antimony. Principal organs attacked include certain enzyme systems (protein and carbohydrate metabolism),heart, lungs, and the mucous membrane of the respiratory tract. Chronic poisoning presents symptoms of dry throat, nausea, headache, sleeplessness, loss of appetite and dizziness. Liver and kidney degenerative changes are late manifestations.

CHROMATES:
Chromate salts are recognized carcinogens of the lungs, nasal cavity and paranssal sinus.

ALIPHATIC HYDROCARBONS:
The vapors of petroleum distillates are mild narcotics and mucous membrane irritants. Continuing exposure may produce signs of inebriation, followed by headache or nauseas. No chronic systemic effects have been reported from widespread industrial use.

ORGANIC PLASTICIZERS:
The vapors of the organic plasticizers used to flexibilize the PVC resin are not considered to present a significant health risk when the film they are in is post processed in a traditional manner. Processing is a manner which results in the accumulation procedures that keep the workplace exposure below that specified in your local code. Effects of overexposure to these organic plasticizer vapors include moderate irritation to the skin, eyes and mucous membranes. Because product performance requirements vary, the opportunity exists for plasticizer mixture of phthalates, adulates, aerates, tri-militates, chlorinated hydrocarbons, soy's, polymeric, and phosphates. The phosphates used do not exhibits cholinesterase depression or other neurotoxicity.

FIRST AID PROCEDURE:

This product has no known toxic hazard. Toxic fumes and gases may be produced by combustion or high temperature decomposition.
For exposure to products of decomposition.

SKIN:
Flush skin thoroughly with soap and cool water for at least five minutes.

EYES:
Immediately flush eyes with potable water for at least 15 minutes, while forcible holding eyelids apart, SEEK MEDICAL ATTENTION.

INHALATION:
Remove to fresh air. If breathing is difficult, administer oxygen.
If respiration stops, give mouth-to-mouth resuscitation.
SEEK MEDICAL ATTENTION.

INGESTION:
Not deemed to be a normal route of exposure.

NOTE TO PHYSICIAN:
Material has no significant toxic hazard. Hazardous fumes and gases that result from Incomplete combustion and decomposition are carbon monoxide, low level cyanides hydrogen chloride, NOx, and other unidentified products of hydrocarbon degradation.

SECTION VII - LEAK AND DISPOSAL PROCEDURES:

SECTION VIII - SPECIAL PROTECTION INFORMATION:
PROTECTIVE GLOVES
Use heavy cotton or insulated gloves to handle hot plastics.
EYE PROTECTION
Safety glasses with side shields are recommended for all industrial workplaces.

VENTILATION AND RESPIRATORY PROTECTION.
Process, which generates vapors, dust or fumes, should be performed with adequate ventilation. If necessary use NIOSH approved chemical cartridge respirator.

SECTION IX - SPECIAL PRECAUTIONS
Store away from easily ignited chemicals and materials or open flames.

K.S. TERMINALS INC.
MATERIAL SAFETY DATA SHEET No. MSDS-011

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	PVC-INSULATED AND PVC-INSULATED DOUBLE CRIMP TERMINALS
Company name:	K.S. TERMINALS INC>
Company address:	8, E. 3rd ROAD, CHANG PIN IND. PARK, HSIEN SHI CHANG HWA, TAIWAN
Company Phone: TEL:	886-47580001
FAX:	886-47580003
Revised:	2009/3/5

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1 COPPER (Cu)

CAS NO:	7440-50-8
Chemical components:	Cu: 99.9% (CAS No. 7440-50-8) P: 0.015%-0.04% (CAS No. 7723-14-0)

2.2 Tin (Sn)

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

2.3 Polyvinyl Chloride Compound

Chemical components:	
Polyvinyl Chloride:	80-85% (CAS No. 9002-86-2)
MBS Impact Modifier:	10-15% (CAS No. 25101-28-4)
Tin Maleate:	1-3% (CAS No. 29881-72-9)
Polymathyl Methacrylate:	0.5-1% (CAS No. 25322-99-0)
Lublicant, and others:	1-3%

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:	No
(3) Physics and chemistry danger:	
(4) Endanger specially:	No
3.1.2 Main symptom:	No
3.1.3 Articles are endangered and classified:	No

4. FIRST AID MEASURES

1. Expose the way first aid method differently:

(1) Eyes contact:	Do not need.
(2) Skin contact:	Do not need.
(3) Ingestion:	Do not need.
2. The most important symptom and danger effect:	No
3. Shelter to the first-aid personnel:	Do not need
4. Suggestion to the doctor:	Do not need

5. 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:	Solid material is not suitable
Environmental precautions:	Solid material is not suitable
Clear up the method:	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.
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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

1, Project is controlled:	No
2, Biological index:	No
3, Personal safeguard:	No

9. PHYSICAL AND CHEMICAL PROPERTIES

	Copper	Sn	PVC
Appearance	Solid	Solid	Solid
Melting point	1083 C	231 C	140 C
Boiling point	2595 C	2875 C	-
Specific gravity	8.94	7.3	1.65

10. STABILITY AND REACTIVITY

10.1 Is stable:	Quite stable under the general environment, the activation is little possible danger reacts 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 toxicity:	No
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.