



MATERIAL SAFETY DATA SHEET

REVISION DATE: Aug. 02. 2014

SUPERSEDES: Aug. 01. 2012

SECTION 1: PRODUCT

PRODUCT NAME: **Seal Zero Perm-50-FOIL**

PRODUCT DESCRIPTION: 12 micron PET / / Adhesive / 25 micron Al Foil /12 micron PET

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

No reportable hazardous substance(s) or complex substance(s)

SECTION 3: HAZARDS IDENTIFICATION

This product is not considered to be hazardous according to regulatory guidelines in section 15.

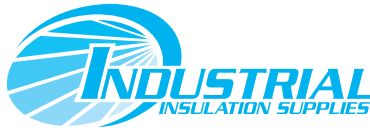
PHYSICAL / CHEMICAL HAZARDS

This Mylar Foil presents a slipping hazard if placed on hard which may result in permanent damage. Mylar Foil can accumulate static charges on friction which may cause an incendiary electrical discharge.

HEALTH HAZARDS

Mylar Foil is essentially nontoxic. When heated, the vapour / fumes given off may cause respiratory tract irritation.

Note: This material should not be used for any other purpose than the intended use without expert advice. Health studies have shown that chemical exposure may cause potential health risks which may vary from person to person



SECTION 4: FIRST AID MEASURES

INHALATION

In case of adverse exposure to vapours formed at elevated temperatures, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest.

SKIN CONTACT

For hot product: Immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauge and get prompt medical attention.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Inappropriate Extinguishing Media: Straight streams of water

FIRE FIGHTING

Fire Fighting Instructions: Assure an extended cooling down period to prevent re-ignition. Evacuate area. Prevent run off from fire control or dilution from entering streams, sewers or Drinking water supply. Fire fighters should use standard protective equipment and in enclosed spaces, self – contained breathing apparatus (SCBA).

Use Water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Incomplete combustion products, smoke, fume, flammable Hydrocarbons, oxides of carbon.



FLAMMABILITY PROPERTIES

Flash Point [Method] : > 250C (482 F)

Flammable Limits (Approximate Volume % In Air): LEL : N/D UEL: N/D

Autoignition Temperature: N/D

SECTION 6: ACCIDENTAL MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

ENVIRONMENTAL PRECAUTIONS

Prevent entry into waterways, Sewers, basements or confined areas.

SECTION 7: HANDLING AND STORAGE

HANDLING

Avoid elevated temperatures for prolonged periods of time. Use proper bonding and/or earthing procedures. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Material can accumulate static charges which may cause an electrical spark (Ignition Source). Care should be taken when storing and handling this product. Apart from the specific nature of the polymer product, conditions such as humidity, sunlight and temperature have an influence on the way the product behaves during storage and handling. Special attention should be paid to avoid in appropriate stacking of palletized bags or other package units. Avoid conditions generating heat during transfer operations.

Loading / Unloading Temperature: [Ambient]

Transport Temperature: [Ambient]

Transport Pressure: [Ambient]

Static Accumulator: This material is a static accumulator.



STORAGE

Do not store in open or unlabeled containers. For resins having a softening point below 80°C, Prolonged storage above 25°C will cause remassing. For resins having a softening point between 80 and 90°C , prolonged storage above 30°C will cause remassing.

Storage Temperature : [Ambient]

Storage Pressure: [Ambient]

Suitable Containers/ Packing: Pallet

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider: adequate ventilation should be provided so that exposure limits are not exceeded.

SPECIAL PRECAUTIONS: Should significant vapors /fumes be generated during thermal processing of this product, it is recommended that work stations be monitored for the presence of thermal degradation by – products which may evolve at elevated temperatures (for example, oxygenated components). Processors of this product should assure that adequate ventilation or other controls are used to control exposure. It is recommended that the current ACGIH-TLVs for thermal degradation by-products be observed.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilations. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended normal usage.

Hand Protection: Any specific glove information provided is based on

published literature and glove manufacturer data. Work conditions can greatly affect glove durability; inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: If product is hot, thermally protective gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on literature or manufacturer data. The type of clothing to be considered for this material include: If product is hot, thermally protective, chemical resistant apron and long sleeves are recommended.

ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Form: Laminate
Colour: Printed laminate
Odour: N/D
Odour Threshold: N/D

IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

Relative Density (at 25°C): 1.41
Flash Point [Method] : >250°C (482 F)
Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D
Autoignition Temperature: N/D
Boiling Temperature: N/A
Vapour Density(Air = 1): N/A
Vapour Pressure: N/A
Evaporation Rate (N-Butyl Acetate = 1): N/A
PH: N/A
Log Pow (n-Octanol/Water Partition Coefficient): N/A
Solubility in Water: ml



Viscosity: N/A

Oxidising Properties: See Sections 3, 15, 16.

OTHER INFORMATION

Freezing Point: N/A

Melting Point: 260°C (500 F)

Molecular Weight: 50000- 10, 0000

Hygroscopic: No

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High dust concentrations.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Route of Exposure	Conclusion / Remarks
<p>INGESTION</p> <p>Toxicity:</p>	<p>Minimally toxic based on test data for structurally similar materials.</p>
<p>SKIN</p> <p>Toxicity :</p> <p>Irritation:</p>	<p>Minimally toxic based on test data for structurally similar materials</p> <p>Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.</p>
<p>EYE</p> <p>Irritation:</p>	<p>MAY CAUSE MILD, SHORT-LASTING DISCOMFORT TO EYES. Based on test data for structurally similar materials.</p>

CHRONIC/OTHER EFFECTS

For the product itself:

Elevated temperatures or mechanical action may form vapours, mists or fumes which may be irritating to the eyes and respiratory tract.

SECTION 12: ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material and similar materials.

ECOTOXICITY

Material - Not expected to be harmful to aquatic organisms.

Material - Not expected to be harmful to terrestrial organisms.



MOBILITY

Material – Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and waste water solids.

PERSISTENCE AND DEGRADABILITY

Biodegradation: non–biodegradable.

Hydrolysis: Transformation due to hydrolysis not expected to be significant.

Photolysis: Transformation due to photolysis not expected to be significant.

Atmospheric Oxidation: Transformation due to atmospheric oxidation not expected to be significant.

Bioaccumulation Potential: Potential to bioaccumulate is low.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL RECOMMENDATIONS

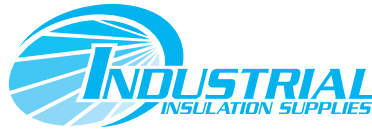
Suitable routes of disposal are supervised incineration, preferentially with energy recovery or appropriate recycling methods in accordance with applicable regulations and material characteristics at the time of disposal.

SECTION 14: TRANSPORTATION INFORMATION

LAND: Not regulated for land transport

SEA (IMDG): Not regulated for sea transport according to IMDG – Code

AIR (IATA): Not required for air transport



SECTION 15: REGULATORY INFORMATION

Material is not hazardous as defined by the EU Dangerous Substances/Preparations Directives.

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Complies with the following national /regional inventory requirements:

PET AND METBOPP complies with 2002/72/EC (as per EU regulations) & USA FDA CFR 177,1630

PE complies with USA FDA CFR: 177.1520, USA-FDA 21CFR:176.170 and IS:9845:1998

SECTION 16: ADDITIONAL INFORMATION

N/D = Not determined, N/A = Not applicable

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