

Safety Data Sheet

Section 1. Identification

GHS product Identifier Geowrap®
Other means of identification Polyamide solid-nonwoven fabric

Relevant identified used of the substance or mixtures and uses advised against

Geowrap® is used as an outer-wrap over RG 2400® products to support the RG on large diameter hot pipes which may vibrate and/or to keep the insulation clean when future inspection may be desired.

Supplier's details Polyguard Products, Inc
 4101 South Interstate 45
 Ennis, TX 75119
 Tel: (214) 515-5000
Emergency telephone number) with hours of operation) CHEMTREC, US 1-800-424-9300 International 1-703-527-3887 (24/7)

Section 2. Hazards Identification

OSHA/HCS status While this material is defined as an Article and not considered hazardous by the OSHA Hazardous Communications Standard (49CFR1910.1200) , this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture Not classified

GHS label elements

Signal word No signal word
Hazard statement Vapor from burning material may be irritating to eyes and respiratory system.

Precautionary statements

Prevention Not applicable
Response Not applicable
Storage Not applicable
Disposal Not applicable
Hazards not otherwise classified None known

Section 3. Composition/Information on Ingredients

Substance/Mixture Mixture
Other means of identification Polyamide solid-nonwoven fabric
CAS number/other identifiers
CAS number Not applicable
Product code Not applicable
 Occupational exposure limits, if available are listed in section 8.

Ingredient	Percent	CAS #
Poly[imino(1,6-dioxo-1,6-hexanediy)imino-1,6-hexanediy]-(nylon 6,6)	95-100 %	32131-17-2
Poly[imino91-oxo-1,6-hexanediy]-(nylon 6)	0-4 %	25038-54-4

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. The specific identity and/or exact percentages of composition has been withheld as trade secret.

Section 4. First Aid Measures

Description of necessary first aid measures.

Eye contact	Slightly irritating to the eyes. Dust from excessive abrasion may cause irritation as would any foreign matter. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if symptoms occur.
Inhalation	Not likely to occur under normal use. Only an inhalation hazard if burning. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	Not irritating to skin.
Ingestion	Not likely to occur under normal use. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	No known significant effects or critical hazards
Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	No known significant effects or critical hazards
Ingestion	No known significant effects or critical hazards

Over-exposure signs/symptoms

Eye contact	No known significant effects or critical hazards
Inhalation	No known significant effects or critical hazards
Skin contact	No known significant effects or critical hazards
Ingestion	No known significant effects or critical hazards

Indication of immediate medical attention and special treatment needed, if necessary.

Notes to physician:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	No specific treatment
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training.

Section 5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known

Specific hazards arising from the chemical No specific fire or explosion hazard.

Hazardous thermal decomposition products

Decomposition products may include the following materials:

Carbon Dioxide
Carbon Monoxide
Nitrogen oxides
Metal oxide(s)

Special protective equipment

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in a positive pressure mode.

Special protective actions for fire fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures.

For non emergency personal	No action shall be taken involving any personal risk or without suitable training. Material will be in fabric form and should be handled using normal caution.
For emergency responders	No action shall be taken involving any personal risk or without suitable training. Material will be in fabric form and should be handled using normal caution.
Enviromental precautions	Not applicable
<u>Methods and materials for containment and cleaning up</u>	
Spill	Due to the physical state of this material, spills are not possible.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures

Advice on general occupational hygiene

Put on appropriate personal protective equipment (see Section 8)

Eating, drinking and smoking should be prohibited in areas where material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry cool and well-ventilated area away from incompatible materials (see section 10) and food and drink.

Section 8. Exposure Controls/Personal Protection

Control parameters

Occupational exposure limits

Appropriate engineering controls

None

Good ventilation should be sufficient to control worker exposure to airborne dust in the event the material is being cut, slit or abraded.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Hygiene measure

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the work station location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when risk assessment indicates this is necessary to avoid exposure to dusts.

Skin Protection

Hand protection

Leather gloves complying with an approved standard should be worn at all times when handling material that has the potential to abrade your skin.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment associated with your process indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. Physical and Chemical Properties

<u>Appearance</u>	
Physical state	Solid
Color	White
Odor	none
Odor threshold	Not available
pH	Not applicable
Melting point	257 to 267 °C (494.6 to 512.6 °F)
Boiling point	Not available
Flash Point	Not determined
Burning time	Not determined
Burning rate	Not determined
Evaporation rate:	Not applicable
Flammability (solid, gas)	Not applicable
Lower & upper explosive (flammable) limits	Not applicable
Vapor density	Not applicable
Vapor pressure	Not applicable
Relative density	Not available
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Auto- ignition temperature	Not applicable
Decomposition temperature	Not applicable
SADT	Not applicable
Viscosity	Not applicable

Section 10. Stability and Reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	This product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Conditions to avoid:	No specific data.
Incompatible materials	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

<u>Information on toxicological effects</u>	
<u>Acute toxicity</u>	There is no data available
<u>Irritation/Corrosion</u>	
<u>Skin</u>	There is no data available
<u>Eyes</u>	There is no data available
<u>Respiratory</u>	There is no data available
<u>Sensitization</u>	
<u>Skin</u>	There is no data available
<u>Respiratory</u>	There is no data available
<u>Mutagenicity</u>	There is no data available
<u>Carcinogenicity</u>	There is no data available

Section 11. Toxicological Information

<u>Reproductive toxicity</u>	There is no data available
<u>Specific target organ toxicity (single exposure)</u>	There is no data available
<u>Specific target organ toxicity (repeated exposure)</u>	There is no data available
<u>Aspiration hazard</u>	There is no data available
<u>Information on the likely routes of exposure</u>	Routes of entry anticipated: dermal (potential skin abrasion) Inhalation (fiber dusting, or fumes when burned).
<u>Potential acute health effects</u>	
<u>Eye contact</u>	No known significant effects or critical hazards
<u>Inhalation</u>	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
<u>Skin contact</u>	No known significant effects or critical hazards
<u>Ingestion</u>	No known significant effects or critical hazards
<u>Symptoms related to the physical, chemical and toxicological characteristics</u>	
<u>Eye contact</u>	No known significant effects or critical hazards
<u>Inhalation</u>	No known significant effects or critical hazards
<u>Skin contact</u>	No known significant effects or critical hazards
<u>Ingestion</u>	No known significant effects or critical hazards
<u>Delayed and immediate effects and chronic effects from short and long term exposure</u>	
<u>Short term exposure</u>	
<u>Potential immediate effects</u>	No known significant effects or critical hazards
<u>Potential delayed effects</u>	No known significant effects or critical hazards
<u>Long term exposure</u>	
<u>Potential immediate effects</u>	No known significant effects or critical hazards
<u>Potential delayed effects</u>	No known significant effects or critical hazards
<u>Potential chronic health effects</u>	
<u>General</u>	No known significant effects or critical hazards
<u>Carcinogenicity</u>	No known significant effects or critical hazards
<u>Mutagenicity</u>	No known significant effects or critical hazards
<u>Teratogenicity</u>	No known significant effects or critical hazards
<u>Developmental effects</u>	No known significant effects or critical hazards
<u>Fertility effects</u>	No known significant effects or critical hazards
<u>Target organs</u>	No known significant effects or critical hazards
<u>Numerical measures of toxicity</u>	
<u>Acute toxicity estimates</u>	There is no data available

Section 12. Ecological Information

<u>Toxicity</u>	None identified.
<u>Persistence and degradability</u>	None identified.
<u>Bioaccumulative potential</u>	None identified.
<u>Mobility in soil</u>	
<u>Soil/water partition coefficient (K_{oc})</u>	Not available.
<u>Other adverse effects</u>	No known significant effects or critical hazards

Section 13. Disposal Considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Section 14. Transportation Information

AERG

Not applicable

Regulatory Information DOT/TDG/IMDG/IATA

Not regulated

Section 15. Regulatory Information

U.S. Federal regulations:

SARA 302/304

United States inventory (TSCA 8 b): all components are listed or exempted

Composition/information on ingredients

SARA 304 RQ

Not applicable

SARA 311/312

Classification

Not applicable

State regulations

California Prop. 65

No components listed.

16. Other Information

Date of revision:

4/1/19

Date of previous issue

New

Revisions:

Version

1

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