HANES INDUSTRIES
A Leggett & Platt COMPANY

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Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product: Insulweb
Chemical Family: Thermoplastic Polyolefin

Emergency Phone Contact: Chemtrec (24 Hours)
Emergency Phone Number: 1-800-424-9300

Section 2 – Hazards Identification

Emergency Overview
None of the components in this material are considered hazardous.
Route of Exposure-Skin
Possible mechanical irritation.
Route of Exposure-Eye
Not expected to be a concern, given that this product is an inert solid.
Route of Exposure -Ingestion
Not Applicable
Route of Exposure-Inhalation
Not expected to be a concern, given that this product is an inert solid.
HMIS Ratings*
Health: 0 Fire: 1 Reactivity: 0 Personal Protection: A
**See Section 16*

Section 3 - Composition

CAS #	Component	Percent
9003-07-0	Polypropylene	100%

Component Information: This product is not hazardous according to the criteria specified in 29CFR 1910.1200 (Hazard Communication Standard). This product is considered an article and does not require an MSDS.

Section 4 - First Aid Measures

First Aid-Skin
Wash affected area with soap and water.
First Aid-Eye
Rinse eyes with water for at least 15 minutes. If irritation persists, contact a physician.
First Aid-Ingestion
Not Applicable
First Aid-Inhalation
Not Applicable
First Aid-Notes to Physician
No health conditions aggravated by exposure are identified. Contact the poison control center if any problem occurs.

Section 5 - Fire Fighting Measures

Flash Point: >329°C(625°F)
Auto Ignition: >357°C(675°F)
Lower Explosive Limit (%): Not Applicable
Method Used: Not Applicable
Flammability Classification: Not Applicable
Upper Explosive Limit (%): Not Applicable
General Fire Hazards
Solid material may burn upon extended exposure to open flames.
Hazardous Combustion Products
Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.
Extinguishing Media
Water spray, foam, carbon dioxide, or dry chemical
Fire Fighting Equipment/Instructions
As in any fire, wear a self-contained breathing apparatus and full protective gear.
NFPA Ratings*
Health: 0 Fire: 1 Reactivity: 0
**See Section 16*

Section 6 - Accidental Release Measures

Containment Procedures
Sweep waste fabric into a pile.
Clean -Up Procedures
Sweep waste fabric into a waste container and recycle, incinerate or landfill in conformity with local disposal regulations.
Evacuation Procedures
Not Applicable
Special Procedures
None

Section 7 - Handling and Storage

Handling Procedures
Avoid exposure to heat, sparks or open flames.

Storage Procedures
Store material in cool (below 140°F) warehouse that is equipped with a sprinkler system.
Ensure product is not stacked too high.
Store product off the floor to prevent water damage.

Section 8 - Exposure Controls/Personal Protection

Component Exposure Limits

Component	CAS	Exposure Limits
Polypropylene	9003-07-0	ACGIH: None Available OSHA: None Available

Engineering Controls
Normal room ventilation is usually adequate.
Personal Protective Equipment
Personal Protective Equipment-Eyes/Face
None usually required
Personal Protective Equipment-Skin
None usually required
Personal Protective Equipment-Respiratory
None usually required
Personal Protective Equipment-General
Follow individual plant safety rules.

Section 9 - Physical & Chemical Properties

Appearance:	White Fabric	**Odor:**	Essentially Odorless
Physical State:	Solid	**pH:**	Not Applicable
Vapor Pressure:	NIL	**Evaporation Rate:**	Not Applicable
Boiling Point:	Not Applicable	**Melting Point:**	>140°C
Solubility (H_2O):	Negligible	**Specific Gravity:**	0.88-0.99
Vapor Density:	Not Applicable	**Percent Volatiles:**	NIL
Packing Density:	Not Applicable		

Section 10 - Chemical Stability & Reactivity Information

Chemical Stability
Stable under ordinary conditions of use and storage.
Conditions to Avoid
Combustible when exposed to open flames.
Incompatibility
None Known
Hazardous Decomposition
Carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbon may be emitted upon decomposition.
Hazardous Polymerization
Will not occur.

Section 11 - Toxicological Information

Acute and Chronic Toxicity

General Product Information

No components of this product are known to be hazardous according to the criteria specified in 29CFR1910.1200 (Hazard Communication Standard).

Component Analysis

Component	CAS	LD50/LC50
Polypropylene	9003-07-0	Rat; LD 50; Route: Intraperitoneal; Dose: >110mg/kg; Toxic Effects: lacrimation; Sense organs and special senses-ptosis; Behavioral-convulsions or effect on seizure threshold; Reference: Yakuri to Chiryo. Pharmacology and Therapeutics 14:1109, 1986 LD50; Route: Intravenous; Dose: >99mg/kg; Toxic Effects: Behavioral-tremor; Lungs, Thorax, or Respiration-cyanosis; Nutritional and Gross Metabolic-body temperature decrease; Reference: Yakuri to Chiryo. Pharmacology and Therapeutics 14:1109, 1986.

Carcinogenicity

General Product Information

Product is considered non-hazardous.

Epidemiology

No information available.

Neurotoxicity

No information available.

Mutagenicity

No information available.

Teratogenicity

No information available.

Other Toxicological Information

Specific toxicity testing has not been performed on this product. Hazard evaluation is based on information from similar products, raw material data, and technical literature.

Section 12 - Ecological Information

Ecotoxicity

General product Information

No available information.

Environmental Fate

No available information.

Section 13 - Disposal Considerations

US EPA Waste Number & Descriptions

General Product Information

None identified.

Component Waste Numbers
No EPA Waste Numbers are applicable for this product's components

Disposal Instructions
Dispose of container and unused contents in accordance with federal, state and local requirements. Processing, use or contamination of this product may change the waste management options.

Section 14 - Transportation Information

Transportation Regulations
Product is not regulated for transportation.

Section 15 - Regulatory Information

US Federal Regulations
General Product Information
This material meets the criteria of 21CFR177.1520 of the FDA food contact regulations.
Component Analysis-Federal

Component	CAS #	SARA 302 (40CFR355 Appx A)	SARA 313 (40CFR372.65)	CERCLA (40CFR302.4)
Polypropylene	9003-07-0	No	No	No

State Regulations
General Product Information
Other state regulations may apply. Check individual state requirements.
Component Analysis-State
The following components appear on one or more of the following state hazardous substances list:

Component	CAS	CA	FL	MA	MN	NJ	PA
Polypropylene	9003-07-0	No	No	No	No	No	No

Component Analysis-WHMIS IDL
No components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List.

Additional Regulatory Information
Component Analysis-Inventory

Component	CAS	TSCA	DSL	EINECS
Polypropylene	9003-07-0	Yes	Yes	Yes (6-402)

Section 16 - Other Information

Other Information
Material for this MSDS was taken from MSDS's for raw materials

PERSONAL PROTECTION EQUIPMENT (PPE)

Personal Protection Equipment Code	Personal Protection Equipment
A	safety glasses
B	safety glasses and gloves
C	safety glasses, gloves and an apron
D	face shield, gloves and an apron
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) / NATIONAL FIRE PROTECTION AGENCY (NFPA)	
Hazard Scale for HMIS / NFPA	HMIS / NFPA Explanation
0	Minimal
1	Slight
2	Moderate
3	Serious
4	Severe
*	Used by HMIS to depict a Chronic Hazard (designate a material as a carcinogen or for materials known to have an adverse effect given chronic exposure)

MSDS History
Format revised 10/03; Typographical errors corrected 1/10/05; Corrections made to Section 9 2/25/05; Updated contact information 8/29/05; Updated information and changed name 11/29/06; Updated formatting 6/22/07; Change contact name 8/13/07; Updated contact information and date 02/09/09; Add information about PPE/HMIS/NFPA 3/24/09

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This information and the product are furnished on the condition that the person receiving them shall make his or her own determination as to the suitability of the product for his particular purpose and on the condition that they assume the risk of his use thereof.

THIS PRODUCT IS CONSIDERED AN ARTICLE AND DOES NOT REQUIRE A MATERIAL SAFETY DATA SHEET (MSDS).

HKR102

Statement on the regulatory status of Sasol Polymers Polypropylene intended for use in food contact applications

Europe

The grade of polypropylene listed above complies with the regulations of the Commission of the European Communities relating to plastic materials and articles intended to come into contact with food as published in *Commission Directive 2002/72/EC* and amended by *Commission Directive 2004/19/EC, Commission Directive 2007/19/EC* and *Commission Directive 2008/39/EC*. Compliance is claimed on the basis of the following:

- Only monomers listed in Annex II (Sections A and B) to *Directive 2002/72/EC* are used in the production of this grade.
- Only additives listed in Annex III (Sections A and B) to *Directive 2002/72/EC* (as amended by Annex II to *Directive 2004/19/EC,* Annex II to *Directive 2007/19/EC* & Annex I to V of *Directive 2008/39/EC*) are used in the production of this grade. Where applicable additives are used in concentrations below the maximum permitted concentration ("QM") specified in the directives listed above.

Users of this grade are informed that:

- A Specific Migration Limit ("SML") or c oncentration limit ("QM") is imposed on certain additives by the directives listed above. To enable polymer converters to fulfil their obligations in term of the regulations , polymer producers are obliged to disclose information pertaining to additives on which limits are imposed. Polymer converters are therefore informed that the grade of polypropylene listed above contains the following additive(s) which are subject to a SML and/or a QM:
  - None
- The directives listed above require that plastic materials and articles in contact with foodstuffs shall have an overall migration lim it ("OML") not exceeding 10 mg/dm² of the area in contact with the foodstuffs (in some instances an alternative OML of 60 mg/kg of foodstuffs packaged in the article is specified). The OML applies to all additives and adjuvant substances present in the final article, including those added during conversion.

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Divisional Directors: RK Groh (Chairman) (German) M Sieberhagen (Managing Director) T Bates N Behrens LPA Davies AM De Ruyter BE Klingenberg TJ Makhoere TS Munday KC Ramon JF van Buren-Schele

- Migration behaviour of additives from polymers into packaged foodstuff is dependant on polymer material composition, packaging article geometry, nature of foodstuff and conditions under which the foodstuff is packed, stored and used. Verification of compliance to SML's and OML's must therefore be done by polymer converters or foodstuff packagers based on the specific design and specific use of the final article in accordance with *Article 8* of *Directive 2002/72/EC* , i.e. either by calculation, migration modelling or migration testing in accordance with *Directive 82/711/EEC* (as amended with *Directive 93/8/EEC* and *97/48/EEC*) and *Directive 85/572/EEC* (as emended by *Directive 2007/19/EC*).

United States of America

The grade of polypropylene listed above complies with the regulations of the US Food and Drug Administration (FDA) governing the use of plastic materials in contact with food as published in the *Code of Federal Regulations 21 CFR* . Compliance is claimed on the basis of the following:

- The basic polymer used in this grade meets the requirements of paragraph (a) (1) (i) or paragraph (a) (3) (i) of *21 CFR 177.1520*.
- The additives used in this grade meet the requirements of paragraph (b) of *21 CFR 177.1520* in that they are permitted for use by the applicable regulations in *21 CFR 170* through *189*. The additives in this grade are permitted in articles intended for use with:
  - Foods of types I to IX as listed in Table 1 of 21 CFR 176.170.
  - Conditions A to H as listed in Table 2 of*21 CFR 176.170.*

For further information or clarification of any part of this statement please do not hesitate to contact us.

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Disclaimer:

a. This statement replaces all earlier statem ents from Sasol Polymers on the above mentioned topic(s). Please contact Sasol Polymers regularly for up-to-date regulatory information.

b. This statement will remain valid until replaced by a newer version from Sasol Polymers on the above mentioned topic.

c. Sasol Polymers provides this information in good faith, but makes no representation as to its comprehensiveness or accuracy. Individuals rece iving this information must exercise their independent judgement in determining its appropriatene ss for a particular purpose. Accordingly, Sasol Polymers will not be responsible for damages resulting from use of or reliance upon this information.

d. *This statement only applies to virgin polypropyl ene granules as supplied by Sasol Polymers and does not include:*
   - *Modification of the polymer by the addition of any other product to it.*
   - *Modification of the polymer resulting from processing.*
   - *Modification of the polymer resulting from storage.*

e. *This statement does not claim or guarantee that Sasol Polymers polypropylene is suitable for any specific food contact application. No blanket "f ood contact approval" of polymer materials and/or articles made from polymer materials is possible under the applicable regulations. Migration of substances from polymers depends to a large extent on the geometry of the article made from the polymer, the foodstuff packed in the articles and the conditions under which the foodstuff is packaged, stored and used. Sasol Polymers cannot predict or guarantee the migratory behaviour of it its polypropylene after it has been converted into articles (mouldings, film, etc). Users are advised to subject articles made from Sasol Polymers polypropylene to relevant calculations and/or migration modelling and/or migration testing befo re suitability for food contact applications is claimed.*

Polyolefins

Legal compliance of products confirmed in Borealis food contact statements issued before the publication of Regulation (EU) No 2023/1627

COMMISSION REGULATION (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food is regularly amended:

The following Regulations (EU), representing the amendments 1-16 were already taken into account in the current major edition of the Borealis food contact statements as issued in July 2023:

321/2011; 1282/2011; 1183/2012; 202/2014; 865/2014; 2015/174; 2016/1416; 2017/752; 2018/79; 2018/213; 2018/831; 2019/37; 2019/988; 2019/1338, 2020/1245 and 2023/1442.

Following the principles for the declaration of compliance (Borealis food contact statements) as laid down in Reg (EC) 1935/2004 and Reg (EU) 10/2011

"*A declaration of compliance (DoC) confirms that all used monomers and additives are listed in Annex I of PIM. Changes of restrictions (QM, SML), in particular when permitted values are reduced, can influence the legal compliance of finished articles*."

Borealis Product Stewardship continuously controls the content of all Borealis DoCs. In the event of such a change the related DoC is updated immediately.

According to article 15-3 of Regulation (EU) 10/2011 (Declaration of compliance):

"*The written declaration shall permit an easy identification of the materials, articles or products from intermediate stages of manufacture or substances for which it is issued. It shall be renewed when substantial changes in the composition or production occur that bring about changes in the migration from the materials or articles or when new scientific data becomes available*"

"Whereas" no. 46 of Regulation (EU) 10/2011 further states:

"*Declaration of compliance need, in principle, only to be updated when substantial changes in the production bring about changes in the migration or when new scientific data are available*…"

The 17th amendment of Regulation (EU) 10/2011 - Regulation(EU) 2023/1627 from 10.08.2023 only adds one substance to the list of permitted monomers, starting substances or additives (Annex I), which is not used in any Borealis polyolefin grade.

Consequently this amendment of regulation (EU) 10/2011 does not require an update of the food contact statements issued in July 2023, which therefore stay valid.

Prepared by Borealis, Group Product Stewardship

Disclaimer

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.

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