



MATERIAL SAFETY DATA SHEET

Section I - PRODUCT INFORMATION

Supplier: Fibres JASZTEX Fibers inc.
61 boul. Hymus, Pointe-Claire,
Quebec, H9R 1E2

Telephone number for information: 514 697 3096

Date prepared: April 2007

Product: Rolls of Bonded Polyester

Item numbers: All TBF identified products

Section II - HAZARDOUS COMPONENTS

There is no known hazardous material used in this product. All new textile material made of a Polyester matrix fiber (Polyethylene Terephthalate) with a copolyester binder fiber. This product may contain up to 0.5% titanium dioxide (TiO₂) and/or other pigments. We don't believe TiO₂ and/or pigments present a significant hazard. The fibers are coated with one or more surface finishes at total levels less than 1.0% weight of fiber.

Section III - FIRE AND EXPLOSION HAZARD DATA

Flammability conditions: Combustible solid

Flash point: N/A

Flammable limits in air: N/A

Auto-ignition temperature: N/A

Unusual Fire and Explosion Hazards: None

Fire extinguishing media: For class "A" fires. Ordinary combustibles.

Fire-fighting procedures: Routine for class "A" fires, synthetic content may produce irritating smell in smoldering fire.

Dangerous combustion products: May emits toxic fumes under fire conditions.

Section IV - LEAK PROCEDURES

N/A

Section V - PHYSICAL DATA

Physical state: White Highloft textile material

Solubility in water: None

Appearance and odour: New textile material has no unusual odour in normal conditions

Percentage volatile (by volume): N/A

Density: From 0.9 to 1.5 lb/cubic foot

Vapour density & pressure: N/A

Melting point: Melting will occur between 165 and 275°C

Evaporation rate N/A

Section VI - REACTIVITY DATA

Product is chemically stable and has no specific incompatibility with other products. It is resistant to oils, solvents, weak acids and weak alkalis.

Section VII - HEALTH HAZARD INFORMATION

Results from toxicity studies suggest that these fibers would pose no significant health problems under normal conditions of handling and use.

Inhalation	N/A
Skin	It may have a low order of dermal toxicity.
Eyes	N/A
Ingestion	N/A

Section VIII - EMERGENCY AND FIRST AID PROCEDURES

Although not expected, if allergic symptoms are observed, remove persons to fresh air and discontinue exposure to the product.

Inhalation	N/A
Skin	None
Eyes	N/A
Ingestion	N/A

Section IX - PREVENTIVE MEASURES

Steps to be taken in case of material is released or spilled:	None
Waste disposal method:	No special procedure. Discard with other solid waste.
Precautions to be taken in handling and storing:	None
Other precautions:	None

Section X - PREPARATION

Issued by: Bruno Fournier, eng.

The above information is believed to be correct as of the date hereof, however, no warranty of the merchantability, fitness for any use, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information. The results to be obtained from the use of this information and the product are furnished on the condition that the person receiving them shall make his/her own determination as to the suitability of product for his/her particular purpose and on the condition that he/she assume the risk of his/her use thereof.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**Product Name:** INTREPID® FILTRATION MEDIA**Product Number:** 250W, 352H, 353H, 354H, 355H, 355W, 358H, 359H, 364H, 365H, 374H, 411H, 411SF, 413H, 413SF, 605L, 612L, 616L, 621L, 629L, 654L, 684L, 854L, 954L

Date Prepared:	11/6/2008
Manufacturer:	Kimberly-Clark Corporation 1400 Holcomb Bridge Road Roswell, GA 30076-2199 United States of America
Telephone: MEDICAL EMERGENCY TRANSPORTATION EMERGENCY INFORMATION	1-877-561-6587 Chemtrec 1-800-424-9300 1-888-346-4652

Product Use: Air Filters for HVAC Applications**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<i>Chemical Name</i>	<i>CAS-No./ EINECS-No</i>	<i>%</i>	<i>EU Classification (67/548/EEC):</i>
Polyolefin	9003-07-0, 26221-73-8	90-100%	Not applicable
Titanium Dioxide	13463-67-7 / 236-675-5	1-5%	Not applicable

3. HAZARDS IDENTIFICATION**Emergency Overview:** White or colored solid. This product is not a hazardous material. Dust may form explosive mixture in air. Inhalation of dust that may be generated from cutting or other processing of product may cause mucous membrane and upper respiratory irritation.**EU Classification (1999/45/EC):** Not classified as a dangerous substance or preparation.**US OSHA Classification (29CFR1910.1200):** Carcinogen**Canadian WHMIS Classification:** Class D-2-A**4. FIRST AID MEASURES****Inhalation:** No first aid should be needed.**Skin contact:** No first aid should be needed.

Eye contact: No first aid should be needed.

Ingestion: No first aid should be needed.

5. FIRE-FIGHTING MEASURES

Flashpoint: Not applicable

Autoignition temperature: >600°F (315°C)

Flammable Limits in Air % by Volume:

LEL (Lower): Not applicable

UEL (Upper): Not applicable

Suitable Extinguishing Media: Water, water fog, foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: In the event of fire, wear self contained breathing apparatus.

Unusual Fire and Explosion Hazards: Dust may form explosive mixture in air.

6. ACCIDENTAL RELEASE MEASURES

Pick up and place in a suitable container for use or disposal. Avoid dust formation.

7. HANDLING AND STORAGE

This product is not a hazardous material. Minimize the generation and accumulation of dust. Store in a dry, well-ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)

Polyolefin	15 mg/m3 PEL-TWA (total dust) 10 mg/m3 TLV-TWA (inhalable dust) as PNOS (particulates not otherwise specified)
Titanium Dioxide	15 mg/m3 PEL-TWA (total dust) 10 mg/m3 TLV-TWA (inhalable dust)

Ventilation: No special ventilation normally required. Provide appropriate exhaust ventilation at places where dust is formed.

Respiratory Protection: No personal respiratory protective equipment normally required. If the exposure limit is exceeded or for symptoms of overexposure, wear an appropriate NIOSH (or local authority) certified respirator.

Protective Gloves: Not required.

Eye Protection: Follow facility requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor	White or colored solid.
Boiling point/range	Not applicable
Melting point/range	257°F (125°C)
Specific Gravity (water=1)	Not available
Vapor pressure	Not applicable
Vapor density (air=1)	Not applicable
Solubility	Insoluble
pH	Not applicable
Partition coefficient (n-octanol/water):	Not applicable
Evaporation Rate (Butyl acetate=1)	Not applicable
Percent Volatile by Volume (%)	0
Volatile Organic Carbon Compounds (VOC) (g/L)	None.

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Keep away from open flames, hot surfaces and sources of ignition.

Materials to avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Does not occur.

11. TOXICOLOGICAL INFORMATION**Symptoms/Effects of Overexposure:**

Inhalation: Inhalation of dust that may be generated from cutting or other processing of product may cause mucous membrane and upper respiratory irritation.

Skin contact: None expected.

Eye contact: None expected.

Ingestion: No unusual hazards expected.

Chronic toxicity: Prolonged overexposure to dust may cause lung changes.

Medical Conditions Aggravated by Exposure: None currently known.

Carcinogenicity Data: Titanium dioxide is classified by IARC as a group 2B carcinogen, possibly carcinogenic to humans. The titanium dioxide in this product is bound in a polymer

matrix so no exposure occurs during normal use and handling. None of the other components of this product is listed as a carcinogen by IARC, NTP, US OSHA or the European Directive (67/548/EEC).

Reproductive Toxicity: No adverse effects on reproduction are known.

Acute Toxicity Values: No data available

12. ECOLOGICAL INFORMATION

No adverse effects on the environment are expected.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all state, local and federal regulations.

14. TRANSPORT INFORMATION

US DOT Shipping Description: Not regulated

IATA Shipping Description (Air): Not regulated

IMDG Shipping Description (Vessel): Not regulated

15. REGULATORY INFORMATION

US Regulations

EPA Toxic Substances Control Act (TSCA): All of the components of this product are listed on the TSCA Inventory or exempted from TSCA.

SARA 302 Listed Chemicals: None.

SARA 311/312 Hazard Categories: Chronic Health

SARA 313 This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under the SARA Section 313 (40 CFR 372): Barium compounds 1-5%

California Proposition 65: This product does not contain chemicals listed per the Safe Drinking Water and Toxic Enforcement Act of 1986.

International Regulations

Canadian WHMIS Classification: Class D-2-A

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

EU Labeling: Not applicable

16. OTHER INFORMATION

HMIS Rating: Health 0 Fire 1 Reactivity 0

Revision Summary: Revision to section(s) 3, 11, 15.

The information contained herein is true and correct to the best of Kimberly-Clark's knowledge. However, no warranty, express or implied, is made. Nothing herein should be interpreted as a recommendation to infringe existing patents or violate any laws or regulations. Final determination of the suitability of the material is the sole responsibility of the user.

Intrepid 508 Gas Phase Media - Performance Comparison

Media	Filter Size	Toluene Absorption* (mg/m ²)	Carbon Loading (g/m ²)	Diff. Pressure (in. H ₂ O)	MERV (Value)	E1 (% Avg)	E2 (% Avg)	E3 (% Avg)
Product A	16 x 20 x 1	5 400	200	0,79	10	21	66	85
Product B	16 x 25 x 1	7 000	0,05	0,24	7	10	41	53
Product C	24 x 24 x 2	7 900	ND	0,30	7	20	55	70
Product D	16 x 20 x 4	17 000	200	0,65	7	21	53	63
Intrepid 508 GP	24 x 24 x 2	25 000	25	0,35	8	17	51	71

ISO TS 1155-2 Air Filters for Passenger Compartments: Part 2 Test for gaseous filtration *

International standard developed for testing the efficiency of media in removing gaseous contaminants and only one that exists.

Several reference gases may be used, but toluene is most relevant, as the most prevalent in indoor air.

The media is challenged with 80 ppm of toluene at an airflow of 60 rate fpm.

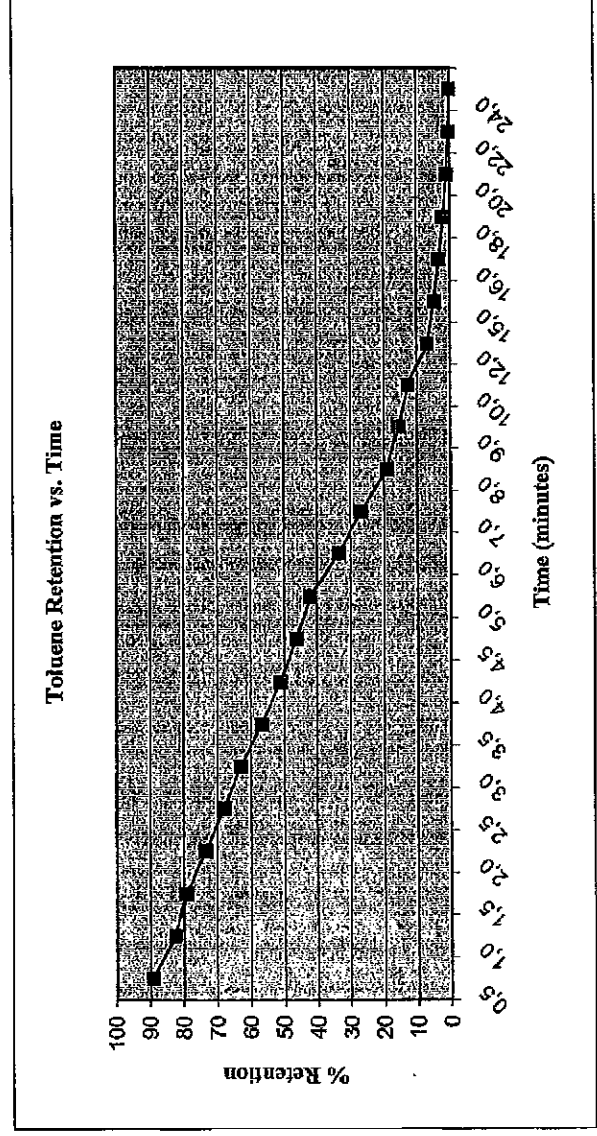
Detectors placed before and after the media in the airstream detect concentration of toluene.

The percent penetration over time is recorded, from which a curve is graphed.

The integral under the inverse of the curve is used to calculate the toluene retention of the media in mg per m².

Test Conditions: Toluene concentration = 80 ppm / Air Flow Rate = 60 fpm / Temperature = 70 F / Flat sheet size = 55

Intrepid 508 Gas Phase Toluene Retention Graph



Time (Min)	% Penet
0,5	89
1,0	83
1,5	79
2,0	74
2,5	68
3,0	63
3,5	57
4,0	51
4,5	46
5,0	42
6,0	34
7,0	27
8,0	19
9,0	16
10,0	13
12,0	7
15,0	5
16,0	3
18,0	2
20,0	1
22,0	0



SUPERIOR FIBERS, L.L.C.

US Department of Labor
Occupational Safety and Health Administration
This MSDS Complies with 29 CFR 1910.1200
(THE HAZARDOUS COMMUNICATION STANDARD)

Form: SFI-0001

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IDENTIFY (AS USED ON LABELS AND LISTS):

Glass Fiber Air Filtration Media (Air Media) – HVAC

SECTION I

MANUFACTURER'S NAME: Superior Fibers, LLC
ADDRESS: 499 North Broad Street
Bremen, Ohio 43107-0089

REVISED: 15 May 2008
SUPERSEDES: All Others

TELEPHONE NUMBER FOR INFORMATION: (740) 569-4175

EMERGENCY TELEPHONE NUMBER: (740) 569-4175

SECTION II --- HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY, COMMON NAME (S):

	OSHA PEL	ACGIH TLV	Other Limits Recommended
Glass Fibers (Nuisance particles, Non-Respirable)	10 mg/m	10 mg/m	N/A
Cured Urea Formaldehyde Resin	None Est.	None Est.	N/A
Polybutene Emulsion	None Est.	None Est.	N/A
May contain quantities of Oil AG (Dust Adhesive)			
94.80% Propylated Triphenyl Phosphate – Phosflex 41-L	3.000	3.000	N/A
1.35% Sorbitan Monolaurate – Sorbax SML	N/A	N/A	N/A
3.85% Silicon Dioxide – Aerosil 200	N/L	N/A	N/A
.00175% Tinopal SFP	N/A	N/A	N/A

N.L.= Not Listed N.A.= Not Available N/A= Not Applicable

SECTION III --- PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: N/A SPECIFIC GRAVITY (H₂O=1): N/A
VAPOR PRESSURE: N/A MELTING POINT: N/A
VAPOR DENSITY: N/A EVAPORATION RATE (BUTYL ACETATE=1): N/A

SOLUBILITY IN WATER: Insoluble

APPEARANCE AND ODOR: Free-form, lofted glass fibers, many colors, no odor.

SECTION IV --- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): Open Cup FLAMMABLE LIMITS: N/A Deg. F.: 380+ LEL N/A UEL N/A

EXTINGUISHING MEDIA: Water fog – CO₂ Dry chemical – Multipurpose foam.

SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing and self-contained breathing apparatus. Material is self extinguishing in bulk roll form. Basic media carries a Class 2 fire rating listing by Underwriters Laboratories, Inc.

UNUSUAL FIRE FIGHTING HAZARDS: If present – Triaryl Phosphate, when exposed to open flame, will emit toxic acid vapors that are formed from Phosphorous Oxide.

SECTION V --- REACTIVITY DATA

STABILITY: Unstable ☐ Conditions to Avoid: None
 Stable ☒

INCOMPATIBILITY (MATERIALS TO AVOID): None

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Will not occur

HAZARDOUS May Occur ☐ Conditions to Avoid: None

POLYMERIZATION May Not Occur ☒

SECTION VI --- HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHALATION? No SKIN? Yes INGESTION? No EYES? Yes

HEALTH HAZARDS (ACUTE AND CHRONIC):

Skin Contact: May produce allergic reaction in sensitive individuals. No long term effects have been identified.

Eye Contact: Avoid by use of protective equipment. Seek medical treatment if irritation persists.

Inhalation: None

Ingestion: None

CARCINOGENICITY: NTP? No IARC MONOGRAMS? No OSHA REGULATED? No

SIGNS AND SYMPTOMS OF EXPOSURE:

Skin: Redness and/or rash in sensitive individuals.

Eyes: Irritation and/or burning sensations.

Inhalation: None

Ingestion: None

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

None known. Sensitive individuals will experience increased discomfort with repeated unprotected exposure.

EMERGENCY AND FIRST AID TREATMENT:

Skin: Wash exposed areas with soap and water after exposure. Wash before all meals.

Eyes: Flush eyes repeatedly with large quantities of water. Seek medical help if irritation persists.

Inhalation: None

Ingestion: None

Notes

SECTION VII --- PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: None required. Solid non-toxic material.

WASTE DISPOSAL METHOD: Clean material can be disposed of in approved landfills according to local, state, and federal regulations. Disposal of contaminated (spent) media will be governed by the particulate that has been captured by the filter. Check all local, state and federal regulations pertaining to the contaminate.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: No special handling required.

OTHER PRECAUTIONS: Wear protective clothing, gloves and eye protection.

SECTION VIII --- CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): Wear a dust mask to filter inhalation if cutting, sanding, or grinding products that contain glass fibers.

VENTILATION LOCAL EXHAUST: Yes
SPECIAL: N/A

MECHANICAL (GENERAL): Yes
OTHER: N/A

PROTECTIVE CLOTHING OR EQUIPMENT:

Gloves: Mandatory impervious gloves

Eye Protection: Yes, avoid any eye contact – Side shields on all eyeglasses, recommended.

Other Protective Clothing or Equipment: None required. Barrier creams can be of help to ultra sensitive individuals. Recommend long sleeve, loose fitting, shirts be worn by sensitive individuals. It is recommended to wash work clothing separate from other laundry. Rinse washer at the end of a cycle.

WORK / HYGIENIC PRACTICES:

Follow normal work / hygienic practices. Avoid using compressed air for work area clean-up. Recommend using wet sweep or filtered vacuum.

The information contained herein is believed to be true and accurate, but is not warranted to be, whether originating with the company or not. Customers are advised to confirm that the information is current, applicable and suitable to their circumstances.