

TEST REPORT

The Intertek logo consists of the word "Intertek" in white, sans-serif font, centered within a dark blue rounded rectangle.

REPORT NUMBER: 100376821COQ-001

ORIGINAL ISSUE DATE: April 13, 2011

REVCISION DATE: APRIL 19, 2011

EVALUATION CENTER

Intertek Testing Services NA Ltd.

1500 Brigantine Drive

Coquitlam, B.C. V3K 7C1

RENDERED TO

Domtek Inc.

Hayfield Road

PO Box 20078

Brandon, MB R7A 6Y8

PRODUCT EVALUATED: Trusscore PVC Liner Panels - M

EVALUATION PROPERTY: Surface Burning Characteristics

Report of Testing Trusscore PVC Liner Panels - M for compliance with the applicable requirements of the following criteria: CAN/ULC S102.2-10, *Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies.*

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to copy or distribute this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

1 Table of Contents

	PAGE
1 Table of Contents	2
2 Introduction	3
3 Test Samples	3
3.1 SAMPLE SELECTION.....	3
3.2 SAMPLE AND ASSEMBLY DESCRIPTION	3
4 Testing and Evaluation Methods.....	4
4.1 TEST STANDARD.....	4
5 Testing and Evaluation Results	5
5.1 RESULTS AND OBSERVATIONS.....	5
6 Conclusion	6
APPENDIX A – Data Sheets	6 Pages
REVISION SUMMARY	

2 Introduction

Intertek Testing Services NA Ltd. (Intertek) has conducted testing for Domtek Inc., to evaluate the surface burning characteristics of Trusscore PVC liner panel - M. Testing was conducted in accordance with the standard methods of CAN/ULC S102.2-10, *Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies*.

This evaluation began April 12, 2011 and was completed the same day.

3 Test Samples

3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the client and were not independently selected for testing. The sample materials were received at the Evaluation Center on April 8, 2011.

Upon receipt of the samples at the Intertek Coquitlam laboratory they were placed in a conditioning room where they remained in an atmosphere of $23 \pm 3^{\circ}\text{C}$ ($73.4 \pm 5^{\circ}\text{F}$) and $50 \pm 5\%$ relative humidity

SAMPLE AND ASSEMBLY DESCRIPTION

The samples were described by the client as Trusscore PVC Liner Panel – M. These panels measured 5 ft. long by 13 in. wide by 1/2 in. thick.

For each trial run, five panels 13 in. wide and five panels 4-1/2 in. wide were placed on the floor to make up the required sample width of 17-1/2 in. and butted together for the full length of the tunnel (24 ft). A layer of 6mm reinforced cement board was placed on the upper ledge of the tunnel, the tunnel lid was lowered into place, and the samples were then tested in accordance with CAN/ULC S102.2-10.

4 Testing and Evaluation Methods

4.1. TEST STANDARD

The results of the tests are expressed by indexes, which compare the characteristics of the sample under tests relative to that of select grade red oak flooring and asbestos-cement board.

(A) Flame Spread Classification:

This index relates to the rate of progression of a flame along a sample in the 25 foot tunnel. A natural gas flame is applied to the front of the sample at the start of the test and drawn along the sample by a draft kept constant for the duration of the test. An observer notes the progression of the flame front relative to time.

The test apparatus is calibrated such that the flame front for red oak flooring passes out the end of the tunnel in five minutes, thirty seconds (plus or minus 15 seconds).

(B) Smoke Developed:

A photocell is used to measure the amount of light, which is obscured by the smoke passing down the tunnel duct. When the smoke from a burning sample obscures the light beam, the output from the photocell decreases. This decrease with time is recorded and compared to the results obtained for red oak, which is defined to be 100.

5 Testing and Evaluation Results

5.1. RESULTS AND OBSERVATIONS

(A) Flame Spread

The resultant flame spread classifications are as follows:
(classification rounded to nearest 5)

Trusscore PVC Liner Panel - M	Flame Spread	Flame Spread Classification
Run 1	3	5
Run 2	4	
Run 3	3	

(B) Smoke Developed

The areas beneath the smoke developed curve and the related classifications are as follows:
(classification rounded to nearest 5)

Trusscore PVC Liner Panel - M	Smoke Developed	Smoke Developed Classification
Run 1	370	345
Run 2	311	
Run 3	357	

(C) Observations

During the tests, the sample surface ignited at 27 to 31 seconds, the flame began to progress along the sample until it reached the maximum flame spread.

6 Conclusion


The samples of Trusscore PVC Liner Panel - M, submitted by Domtek Inc., exhibited the following flame spread characteristics when tested in accordance with CAN/ULC S102.2-10, *Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies*.


A series of three test runs of each material was conducted to conform to the requirements of the National Building Code of Canada.

Sample Material	Flame Spread Classification	Smoke Developed Classification
Trusscore PVC Liner Panel - M	5	345

The conclusions of this test report may be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

INTERTEK TESTING SERVICES NA LTD.

Tested and
Reported by: 
Greg Philp
Technician – Construction Products Testing

Reviewed by: 
Scott Leduc, EIT
Reviewer, Fire Testing

GP

APPENDIX A

DATA SHEETS

CAN/ULC S102.2-10 DATA SHEETS

Run 1

Standard: Canadian ULC S102.2

Page 1 of 2

Client: Domtek Manufacturing

Date: 04/12/2011

Project Number: G100376821

Test Number: 1

Operator: Greg Philp

Specimen ID: Trusscore PVC Liner Panel M

TEST RESULTS

FLAMESPREAD INDEX: 5

SMOKE DEVELOPED INDEX: 370

SPECIMEN DATA . . .

Time to Ignition (sec): 30

Time to Max FS (sec): 545

Maximum FS (mm): 423.7

Time to 527 C (sec): Never Reached

Time to End of Tunnel (sec): Never Reached

Max Temperature (C): 285

Time to Max Temperature (sec): 598

Total Fuel Burned (cubic feet): 44.00

FS*Time Area (M*min): 1.5

Smoke Area (%A*min): 427.3

Unrounded FSI: 2.8

Unrounded SDI: 370.3

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 40.0

Red Oak Smoke Area (%A*min): 115.4

Tested By: GP

Reviewed By: SE

CAN/ULC S102.2-10 DATA SHEETS

Run 1

Page 2 of 2

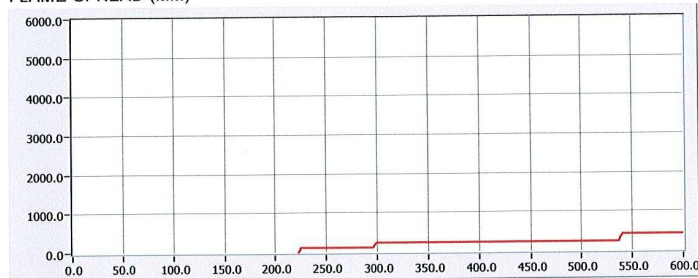
Client: Domtek Manufacturing

Specimen ID: Trusscore PVC Liner Panel M

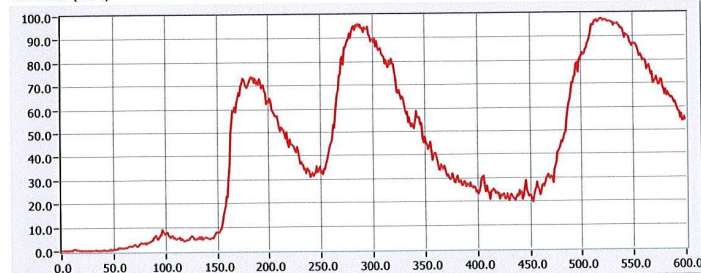
Test No.: **G100376821**

Standard: Canadian ULC S102.2

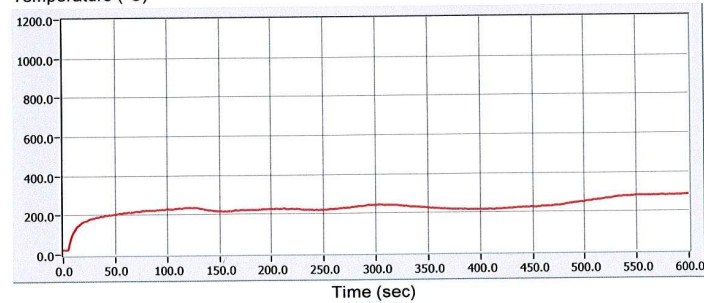
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: SP

Reviewed By: SL

CAN/ULC S102.2-10 DATA SHEETS

Run 2

Standard: Canadian ULC S102.2

Page 1 of 2

Client: Domtek Manufacturing

Date: 04/12/2011

Project Number: G100376821

Test Number: 2

Operator: Greg Philp

Specimen ID: Trusscore PVC Liner Panel M

TEST RESULTS

FLAMESPREAD INDEX: 5

SMOKE DEVELOPED INDEX: 310

SPECIMEN DATA . . .

Time to Ignition (sec): 27

Time to Max FS (sec): 594

Maximum FS (mm): 403.5

Time to 527 C (sec): Never Reached

Time to End of Tunnel (sec): Never Reached

Max Temperature (C): 262

Time to Max Temperature (sec): 600

Total Fuel Burned (cubic feet): 44.00

FS*Time Area (M*min): 2.1

Smoke Area (%A*min): 358.5


Unrounded FSI: 3.9


Unrounded SDI: 310.7

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 40.0

Red Oak Smoke Area (%A*min): 115.4

Tested By: 

Reviewed By: 

CAN/ULC S102.2-10 DATA SHEETS
Run 2

Page 2 of 2

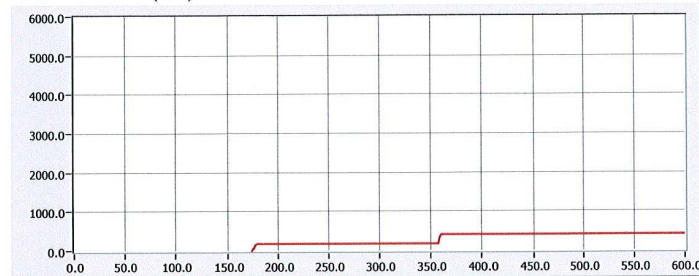
Client: Domtek Manufacturing

Specimen ID: Trusscore PVC Liner Panel M

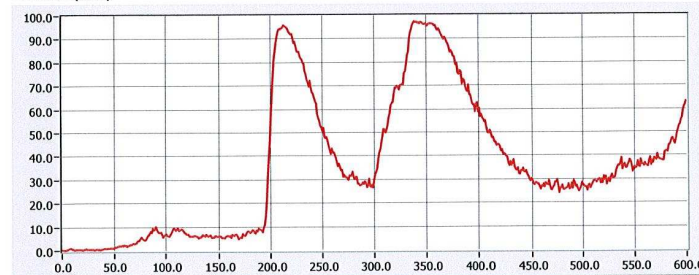
Test No.: G100376821

Standard: Canadian ULC S102.2

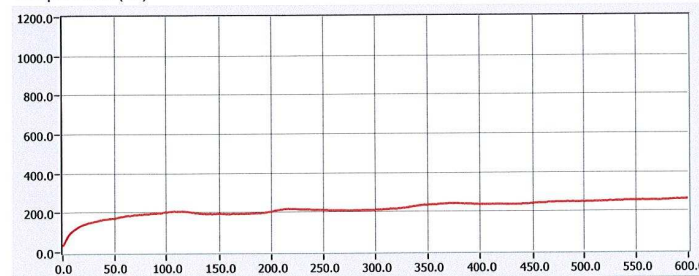
FLAME SPREAD (MM)



Smoke (%A)





Temperature (°C)



Time (sec)

600

Tested By: 

Reviewed By: 

CAN/ULC S102.2-10 DATA SHEETS

Run 3

Standard: Canadian ULC S102.2

Page 1 of 2

Client: Domtek Manufacturing

Date: 04/12/2011

Project Number: G100376821

Test Number: 3

Operator: Greg Philp

Specimen ID: Trusscore PVC Liner Panel M

TEST RESULTS

FLAMESPREAD INDEX: 5

SMOKE DEVELOPED INDEX: 355

SPECIMEN DATA . . .

Time to Ignition (sec): 31

Time to Max FS (sec): 371

Maximum FS (mm): 336.3

Time to 527 C (sec): Never Reached

Time to End of Tunnel (sec): Never Reached

Max Temperature (C): 253

Time to Max Temperature (sec): 600

Total Fuel Burned (cubic feet): 44.00

FS*Time Area (M*min): 1.9

Smoke Area (%A*min): 411.9

Unrounded FSI: 3.5

Unrounded SDI: 356.9

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 40.0

Red Oak Smoke Area (%A*min): 115.4

Tested By: 

Reviewed By: 

CAN/ULC S102.2-10 DATA SHEETS
Run 3

Page 2 of 2

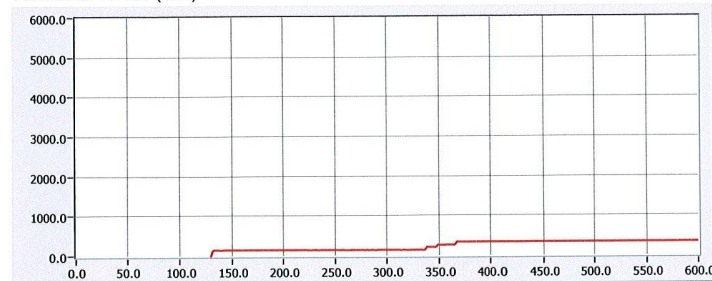
Client: Domtek Manufacturing

Specimen ID: Trusscore PVC Liner Panel M

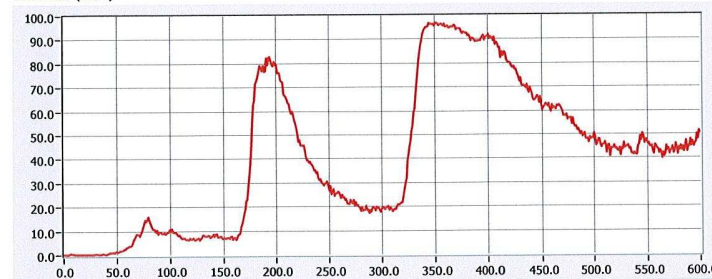
Test No.: G100376821

Standard: Canadian ULC S102.2

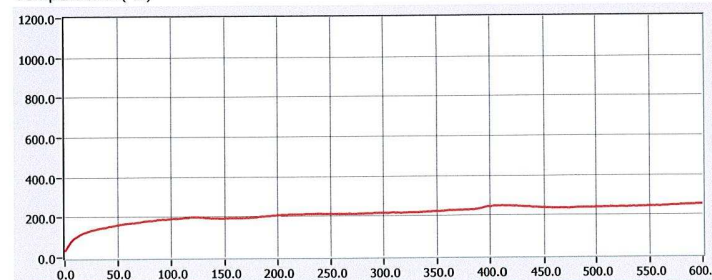
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By:

Reviewed By:

REVISION SUMMARY

DATE	PAGE(S)	SUMMARY	Initial
April 13, 2011	All	Original Issue Date	
April 19, 2011	Cover, header, 3 and 6	Company name was corrected	<i>SL</i>



Canadian Food Inspection Agency Agence canadienne d'inspection des aliments

Food Safety Directorate
3851 Fallowfield Road
Ottawa, Ontario, Canada
K2H 8P9

Tel: (613) 228-6698
Fax: (613) 228-6675

Direction de la sécurité alimentaire
3851, chemin Fallowfield
Ottawa (Ontario) Canada
K2H 8P9

Tél: (613) 228-6698
Télécopieur: (613) 228-6675

Date: 2008/03/03

File/Dossier: # D305

Mr. Rod Mancini
President
Domtek Inc.
Box 118, Grp. 336, RR3
Winnipeg, Manitoba
R3C 2E7

RE: D305 Domtek Inc.
Winnipeg, Manitoba R3C 2E7
08/03/03 e1, e3

Trusscore PVC Interlocking
Liner Panel

This will acknowledge your submission dated 08/02/19, concerning the aforementioned construction material for which you have requested acceptance for use in food processing facilities.

Nous accusons réception de votre soumission datée du 08/02/19, concernant le matériau de construction cité en rubrique pour lequel vous demandez une acceptation pour utilisation dans les établissements de transformation alimentaire.

Upon reviewing the physical and chemical data, the product would appear satisfactory.

Évalué sur la base de ses caractéristiques physiques et chimiques, le produit semble satisfaisant.

Therefore, no objection will be taken to the use of the above construction material in food facilities on walls and ceilings, with the understanding that it is used in keeping with the manufacturer's recommendations for application and the Canadian Food Inspection Agency requirements and provided that:

Par conséquent, nous n'avons aucune objection quant à l'utilisation du matériau de construction ci-haut mentionné dans les établissements alimentaires sur les murs et les plafonds, à condition qu'il soit utilisé conformément aux recommandations d'application du fabricant et des exigences de l'Agence canadienne d'inspection des aliments et pourvu que:

1- All joints are to be sealed with an acceptable flexible caulking compound to provide a smooth, flush and impervious joint;

1- Tous les joints soient scellés avec une pâte à calfeutrer souple acceptable procurant un fini lisse, à ras et imperméable;

Canada

2- All corners and wall-floor junctions shall be coved, the coving to have a radius of at least 2.5 cm.

Should any unacceptable sanitary maintenance problems occur as a result of improper installation or maintenance, the inspection service may request corrective action to be taken.

This acceptance of the construction material will depend upon its continued acceptability to all concerned.

Also, this acceptance is strictly for use on non food contact surfaces.

Should any changes occur in the chemical formulation of the aforementioned construction material, then this acceptance will be considered **NULL and VOID**.

Yours truly,

2- Tous les coins et les jonctions murs/sol soient courbés, et que la courbe ait un rayon d'au moins 2.5 cm.

Si des problèmes d'entretiens sanitaires inacceptables survenaient suite à une installation ou un entretien inadéquat, le service d'inspection pourrait demander que des mesures correctives soient prises.

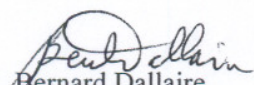
L'acceptabilité du matériau de construction sera conditionnelle à la satisfaction de toutes les parties intéressées.

De plus, veuillez prendre note que cette acceptation est valide seulement pour utilisation sur des surfaces n'entrant pas en contact avec les aliments.

Cette acceptation sera considérée comme **NULLE et SANS EFFET** si l'on procède à une modification quelconque dans la formulation chimique du matériau de construction ci-haut mentionné.

Je vous prie d'agréer l'expression de nos sentiments les meilleurs.

Agent intérimaire de programmes
Section de l'analyse des risques alimentaires
Direction de la sécurité alimentaire


Bernard Dallaire
Acting Program Officer
Food Safety Risk Analysis Unit
Food Safety Directorate

BD/jc

RDIMS# 1433997

TRUSSCORE PVC Wall and Ceiling Liner

LIMITED LIFE TIME WARRANTY

Please read carefully. This document contains clauses which limit remedies to the Purchaser

MSW Canadian Plastics Inc. warrants to the direct Purchaser of Trusscore PVC Wall and Ceiling Liner ("Trusscore") that the Trusscore will be free from manufacturing defects including peeling, flaking, blistering and corroding when subject to normal and proper use. Should any such of the listed defects occur, MSW Canadian Plastics Inc. will provide replacement Trusscore for the defective part. The Purchaser's only remedy will be limited to replacement of the defective part.

MSW Canadian Plastics Inc. shall not be liable or responsible for labour charges or other incidental or consequential expenses or damages whatsoever in connection with removal or installation of either the original or the replacement product. For greater certainty, MSW Canadian Plastics Inc.'s maximum financial exposure is the selling price of the affected Trusscore.

LIMITATIONS

This warranty does not provide protection against any failure, defect or damage caused by situations and events beyond normal exposure conditions, including but not limited to:

- Misuse, abuse, neglect or improper handling or storage;
- Improper installation or installation not in strict adherence to the written instruction(s);
- Impact of foreign object(s), animals (wildlife or domesticated), fire, earthquake, flood, lightning, hail, hurricane, tornado or other casualty or acts of God;
- Movement, distortion, collapse or settling of the ground, foundation or structure on which the product is installed;
- Any other cause not involving manufacturing defect in the material supplied by MSW Canadian Plastics Inc.;

Sunshine and other common pollutants including but not limited to metal oxides or metallic particles, mildew, mold, animal waste, exposure to harmful chemical or normal weathering from elements may cause a gradual change of colour, chalking or accumulation of spots or dirt on all exposed surfaces; these are natural occurrences, which are also excluded from this limited warranty. Normal weathering is defined as exposure to sunlight and extremes of weather and atmosphere, which will gradually affect any exposed surface. The severity of any condition depends on the geographical location of the product, the cleanliness of the air in the area, and many other influences over which MSW Canadian Plastics Inc. has no control.

MSW Canadian Plastics Inc. shall have sole discretion to determine, based on reasonable criteria, whether the product is suffering from normal weathering. If the product weathers to a degree determined by MSW Canadian Plastics Inc. to be beyond normal, MSW Canadian Plastics Inc. will provide replacement material for the defective part but not including the cost of other expenses whatsoever in connection with removal or installation of either the original or the replacement product.

This warranty does not apply to products that have been painted, varnished or coated, in any manner whatsoever, over the manufacturers' original finish.

MSW Canadian Plastics Inc. reserves the right to discontinue or modify any of its products, including the colour, specification, etc. without notice, nor shall MSW Canadian Plastics Inc. be liable in the event the replacement material may vary in color or gloss in comparison to the original product as a result of normal weathering.

OTHER CONDITIONS

This warranty replaces all other oral or written warranties, liabilities or obligations of MSW Canadian Plastics Inc. In no event shall MSW Canadian Plastics Inc. be liable for consequential or incidental damage of any kind, including any damage to the building, its contents or any person therein, resulting from the breach of this warranty. MSW Canadian Plastics Inc. does not authorize its field representatives, distributors or dealers to make any change or modification to this warranty. All purchases are subject to MSW Canadian Plastics Inc.'s Standard Terms and Conditions of Sale. This warranty is non-transferable and non-assignable.



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

GEON 87416 WHITE 1445

Version Number 1.2
Revision Date 06/13/2007

Page 1 of 7
Print Date 6/15/2007

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION
33587 Walker Road, Avon Lake, OH 44012

Telephone : Product Stewardship (440) 930-1395
Emergency telephone : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Product name : GEON 87416 WHITE 1445
Product code : 8741600A1445
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Calcium stearate	1592-23-0	1 - 5
Calcium carbonate	471-34-1	1 - 5
Titanium dioxide	13463-67-7	5 - 10

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating or processing. The end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions. May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: : Inhalation, Ingestion, Skin contact

Acute exposure

Inhalation : Resin particles, like other inert materials, can be mechanically irritating.
Ingestion : May be harmful if swallowed.
Eyes : Resin particles, like other inert materials, are mechanically irritating to eyes.
Skin : Experience shows no unusual dermatitis hazard from routine handling.

Chronic exposure : Refer to Section 11 for Toxicological Information.



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

GEON 87416 WHITE 1445

Version Number 1.2

Revision Date 06/13/2007

Page 2 of 7

Print Date 6/15/2007

Medical Conditions : None known.
Aggravated by Exposure:

4. FIRST AID MEASURES

Inhalation : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.

Ingestion : Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.

Eyes : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.

Skin : Wash off with soap and plenty of water. If skin irritation persists seek medical attention.

5. FIRE-FIGHTING MEASURES

Flash point : Not applicable

Flammable Limits

- Upper explosion limit** : Not applicable
- Lower explosion limit** : Not applicable

Autoignition temperature : Not applicable

Suitable extinguishing media : Carbon dioxide blanket, Water spray, Dry powder, Foam.

Special Fire Fighting Procedures : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.

Unusual Fire/Explosion Hazards : May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions. Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), other hazardous materials, and smoke are all possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.

Environmental precautions : Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.

Methods for cleaning up : Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

7. HANDLING AND STORAGE



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

GEON 87416 WHITE 1445

Version Number 1.2

Revision Date 06/13/2007

Page 3 of 7

Print Date 6/15/2007

- Handling : Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation. Processing fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize accumulation of these materials.
- Storage : Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Respiratory protection : No personal respiratory protective equipment normally required. If dusty conditions occur wear appropriate respiratory protection.
- Eye/Face Protection : Safety glasses with side-shields
- Hand protection : Protective gloves
- Skin and body protection : Long sleeved clothing
- Additional Protective Measures : Safety shoes
- General Hygiene Considerations : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. This product may contain residual vinyl chloride monomer (VCM) (CAS number 75-01-4) below 8.5 ppm (0.00085%). It is unlikely, under normal working conditions with adequate ventilation, that the exposure limits will be exceeded for residual VCM. However, the user should take the necessary precautions (e.g. mechanical ventilation, local exhaust ventilation, air-monitoring, respiratory protection, etc.) to ensure airborne levels of any vapors including VCM or dusts that may be released during heating or processing are below regulated levels.
- Engineering measures : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.

Exposure limit(s)

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

GEON 87416 WHITE 1445

Version Number 1.2

Revision Date 06/13/2007

Page 4 of 7

Print Date 6/15/2007

Components	Value	Exposure time	Exposure type	List:
Calcium stearate	10 mg/m3	Time Weighted Average (TWA):		ACGIH
Calcium carbonate	10 mg/m3	Time Weighted Average (TWA):		ACGIH
	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):		MX OEL
	20 mg/m3	Short Term Exposure Limit (STEL):		MX OEL
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):	as Ti	MX OEL
	20 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Solid	Evaporation rate	: Not applicable
Appearance	: pellets, powder	Specific Gravity	: Not determined
Color	: WHITE	Bulk density	: Not established
Odour	: Very faint	Vapour pressure	: Not applicable
Melting point/range	: Not determined	Vapour density	: Not applicable
Boiling Point:	: Not applicable	pH	: Not applicable
Water solubility	: Insoluble		

10. STABILITY AND REACTIVITY

Stability	: Stable.
Hazardous Polymerization	: Will not occur.
Conditions to avoid	: Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
Incompatible Materials	: Incompatible with strong acids and oxidizing agents., Avoid contact with acetal homopolymers and acetal copolymers during processing.
Hazardous decomposition products	: Carbon dioxide (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), other hazardous materials, and smoke are all possible. Prolonged heating (approximately 30 minutes or more) above 392 °F (200 °C) or short term heating at 482 °F (250 °C) may result in product decomposition and evolution of carbon monoxide and hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

GEON 87416 WHITE 1445

Version Number 1.2

Revision Date 06/13/2007

Page 5 of 7

Print Date 6/15/2007

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
471-34-1	Calcium carbonate	Irritant	Eyes, Skin.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
1592-23-0	Calcium stearate	Oral LD50	> 10 gm/kg	rat
471-34-1	Calcium carbonate	Oral LD50	6,450 mg/kg	rat

Carcinogenicity

This product contains the following components which, in their pure form, have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
13463-67-7	Titanium dioxide	no	2B	no

IARC Carcinogen Classifications:

- 1 - The component is carcinogenic to humans.
- 2A - The component is probably carcinogenic to humans.
- 2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

- 1 - The component is known to be a human carcinogen.
- 2 - The component is reasonably anticipated to be a human carcinogen.

12. ECOLOGICAL INFORMATION

Persistence and degradability	: Not readily biodegradable.
Environmental Toxicity	: Adverse ecological impact is not known or expected under normal use.
Bioaccumulation Potential	: No data available
Additional advice	: Not applicable

13. DISPOSAL CONSIDERATIONS

Product	: Like most thermoplastic plastics the product can be recycled. Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste
---------	--



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

GEON 87416 WHITE 1445

Version Number 1.2

Revision Date 06/13/2007

Page 6 of 7

Print Date 6/15/2007

classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

Contaminated packaging : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

14. TRANSPORT INFORMATION

U.S. DOT Classification : Not regulated for transportation.

ICAO/IATA (air) : Not regulated for transportation.

IMO / IMDG (maritime) : Not regulated for transportation.

15. REGULATORY INFORMATION

US Regulations:

OSHA Status : Classified as hazardous based on components.

TSCA Status : All components of this product are listed on or exempt from the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Not applicable

California Proposition 65 : Not applicable

SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

POLYONE CORPORATION**MATERIAL SAFETY DATA SHEET*****GEON 87416 WHITE 1445***

Version Number 1.2

Page 7 of 7

Revision Date 06/13/2007

Print Date 6/15/2007

Not applicable

WHMIS Classification : D2A

DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

Australia AICS : Not determined

China IECS : Not determined

Europe EINECS : Listed

Japan ENCS : Not determined

Korea KECI : Not determined

Philippines PICCS : Not determined

16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.