



Material Safety Data Sheet

1. Product and company identification

Product name : Energy Saving Titanium Peel & Cling Window Film
Synonym : Peel & Cling Window Film
Manufacturer : Solutia Inc.
 575 Maryville Center Drive, St. Louis, Missouri 63141
 U.S.A.
 1-314-674-6661
Reference number : 200000200412
Validation date : 09/10/2010
Print date : 09/10/2010
Responsible name : Solutia Hazard Communication Group
In case of emergency : Chemtrec: 1-800-424-9300
 Chemtrec: 703-527-3887
Product type : flexible plastic film

2. Hazards identification

Physical state : Solid [flexible plastic film]
Odor : odorless.
Emergency overview :
 Elevated processing temperatures may cause release of vapours which are irritating to eyes and upper respiratory tract (> 235 C)
 Molten polymer can cause thermal burns.
Potential acute health effects
inhalation : Elevated processing temperatures may cause release of vapours which are irritating.
Ingestion : Practically non-toxic if swallowed.
skin : Non-irritating to the skin.
eyes : No significant irritation expected other than possible mechanical irritation. Contact with eyes is likely to result in corneal abrasion.
Potential chronic health effects
Target organs : None known.
Over-exposure signs/symptoms
inhalation : No specific data.
Ingestion : No specific data.
skin : No specific data.
eyes : No specific data.
Medical conditions aggravated by over-exposure : None known.
 See toxicological information (section 11)

3. Composition/information on ingredients

Compounded polyvinyl chloride is a fused compound of many ingredients., Hazardous ingredients, if present remain encapsulated in the PVC under conditions of normal use.

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Polyvinyl Chloride	9002-86-2	60 - 65

Polyethylene Terephthalate	25038-59-9	10 - 15
Paper liner	-	20 - 25
Aluminium	7429-90-5	< 1
Proprietary Adhesive	-	< 5
Proprietary coating	-	< 1

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.

4. First aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
- Skin contact** : If splashed by molten material, cool quickly with water and seek medical aid : do not pull off from skin. Get medical attention.
- Inhalation** : In the event of any complaints or symptoms, avoid further exposure. Move exposed person to fresh air.
- Ingestion** : Immediate first aid is not likely to be required. Remove visible particles from mouth and rinse mouth thoroughly with water.

5. Fire-fighting measures

- Flammability of the product** : No specific fire or explosion hazard.
- Extinguishing media** :
 - Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Special exposure hazards** :
 - Hazardous thermal decomposition products** : No specific data.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal precautions** : Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Do not allow to enter drains or watercourses.
- Methods for cleaning up** :
 - Small spill** : In case of spill, sweep, scoop or vacuum and remove.
 - Large spill** : In case of spill, sweep, scoop or vacuum and remove.

7. Handling and storage

- Handling** : Slip Hazard - Avoid walking on loose film on floor. Take precautionary measures against static discharges. Workers should wash hands and face before eating, drinking and smoking.
- Storage** : Keep away from heat and direct sunlight. Keep away from sources of ignition.

8. Exposure controls/personal protection

Occupational exposure limits

Ingredient
Polyvinyl Chloride

Exposure limits

ACGIH TLV (2008-01-01) Notes: The agent (mixture, or exposure circumstance) is not classifiable as to its carcinogenicity to humans. ACGIH 2008 Adoption Refers to Appendix A -- Carcinogens. Respirable fraction; see Appendix C, paragraph C.
TLV-TWA: Threshold Limit Value - Time weighted average PEL:

Permissible Exposure Level 1 mg/m3 Form: respirable fraction

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Hygiene measures** : 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.
- Personal protection**
- Respiratory** : This material is not likely to present an airborne exposure concern under normal conditions of use.
- Hands** : Wear protective gloves.
- eyes** : Safety glasses.
- skin** : Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice

9. Physical and chemical properties

Physical state	: Solid
Odor	: odorless.
SADT	: Not available

10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : Elevated temperatures > 235 C
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Polyvinyl Chloride				
Conclusion/Summary	: This product has not been tested for toxicity.			

Chronic toxicity

Conclusion/Summary	: Not applicable
Irritation/Corrosion	
Conclusion/Summary	
skin	: Not applicable
eyes	: Not applicable
Respiratory	: Not applicable

Sensitizer

Conclusion/Summary	
skin	: Not applicable
Respiratory	: Not applicable

Carcinogenicity

Conclusion/Summary	: Not applicable
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Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Polyvinyl Chloride	A4	3				
aluminium	A4					

Mutagenicity

Conclusion/Summary	:	Not applicable.
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Teratogenicity

Conclusion/Summary	:	Not applicable
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Reproductive toxicity

Conclusion/Summary	:	Not applicable
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12. Ecological information

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Aluminium	Acute LC50 0.31 mg/l Fresh water	Fish - Rainbow trout(Oncorhynchus mykiss)	4 d

Conclusion/Summary	:	Solutia has not conducted environmental toxicity or biodegradation studies with this material.
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Persistence/degradability

Conclusion/Summary	:	Not applicable
Octanol/water partition coefficient	:	

13. Disposal considerations

Waste disposal	:	This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dispose of according to all federal, state and local applicable regulations. This product should not be dumped, spilled, rinsed or washed into sewers or public waterways.
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Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification		Not regulated.				
IMDG Class		Not regulated.				
IATA-DGR Class		Not regulated.				

PG* : Packing group

15. Regulatory information

United States	:	Not regulated.
HCS Classification	:	
U.S. Federal regulations	:	<p>United States inventory (TSCA 8b): All components are listed or exempted.</p> <p>SARA 302/304/311/312 extremely hazardous substances: No products were found.</p> <p>SARA 302/304 emergency planning and notification: No products were found.</p> <p>SARA 302/304/311/312 hazardous chemicals: No products were found.</p> <p>SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Polyvinyl Chloride:</p> <p>Clean Water Act (CWA) 307: No products were found.</p> <p>Clean Water Act (CWA) 311: No products were found.</p> <p>Clean Air Act (CAA) 112 accidental release prevention: No products were</p>

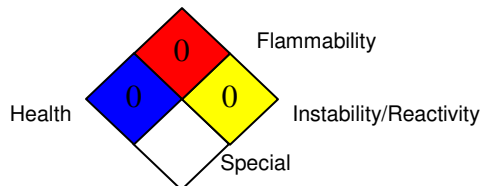
found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

16. Other information

National Fire Protection Association (U.S.A.):



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