

Material Safety Data Sheet

acc.to ISO/DIS 11014

SIGA-Majvest

Version 2.1

Reviewed on: 11/29/2012
Replaces edition of: 10/30/2012

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier:Trade name: **SIGA- Majvest**Relevant identified uses of the substance or mixture and uses advised against:

Application of the substance / the preparation:

Facade membrane

Details of the supplier of the safety data sheet:

Manufacturer/Supplier:

**SIGA Cover, Inc.
8001 Irvine Center Drive
Suite 400
Irvine
California 92618
USA**

Information department:

E-Mail: technics@sigacover.com

Emergency telephone number:

Tel. 1-855-733-7442 (while office-time)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

The product is not classified according to the Globally Harmonized System (GHS).

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

Not applicable

Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of international guidelines.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.Label elements:

GHS label elements:

Void

Hazard pictograms:

Void

Signal word:

Void

Hazard statements:

Void

NFPA ratings (scale 0 - 4):

Health = 0
Fire = 1
Reactivity = 0

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HMIS-ratings (scale 0 - 4)

HEALTH	0
FIRE	1
REACTIVITY	0

Health = 0
Fire = 1
Reactivity = 0Other hazards:Results of PBT and vPvB assessment:PBT: **Not applicable.**vPvB: **Not applicable.**

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:	Mixtures
Description:	Flexible composite material made of polypropylene PP
Dangerous components:	Void

4. FIRST AID MEASURES

Description of first aid measures:

General information:

No special measures required.

After inhalation:

If breathed in, move to fresh air .If not breathing, give artificial respiration. Consult a physician.**If affected are exposed to fumes from overheating or combustion, then bring victim to fresh air.****If breathing is irregular or if respiratory arrest occurs, then administer artificial respiration.**

After skin contact:

Do not pull solidified product away from the skin. When molten polymer applied to the skin, cool rapidly with water. Can cause burns. Then medical treatment.

After eye contact:

This product is an inert substance. If parts gets into the eyes, remove as usual for foreign bodies.

After swallowing:

If symptoms persist consult doctor.Information for doctor:

Most important symptoms and effects both acute and delayed:

No further relevant information available.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

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5. FIREFIGHTING MEASURES

<u>Extinguishing media:</u> Suitable extinguishing agents:	CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Extinguish fire by cooling with water spray.
For safety reasons unsuitable extinguishing agents:	Water with full jet.
Special hazards arising from the substance or mixture:	Carbon Monoxide and Carbondioxide Nitrogen oxides (NOx) Combustible product, melted in the heat. Smoke.
<u>Advise for firefighters:</u> Protective equipment:	Condense escaping vapors with water spray.
Additional information:	Cool endangered receptacles with water spray. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Particular danger of slipping from lying foil on the floor.
Environmental precautions:	Do not allow product to reach sewage system or any water course.
Methods and material for containment and cleaning up:	Send for recovery or disposal in suitable receptacles. Pick up mechanically.
Reference to other sections:	No dangerous substances are released. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. HANDLING AND STORAGE

Precautions for safe handling:	Upon heating of the product: Provide adequate ventilation of the workplace. In certain cases use appropriate local exhaust ventilation at workplace.
Information about protection against explosions and fires:	Protect against electrostatic charges.
<u>Conditions for safe storage, including any incompatibilities:</u> <u>Storage:</u>	

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Requirements to be met by storerooms and receptacles:

Store in a cool location.
Storage on pallets in dry and closed rooms with a solid surface.
Loose roles stacked in containers, racks or secured by wedges.
Pallets with lying rolls should not be stacked.
Products stacked in cardboard boxes up to 5.5 m height.

Information about storage in one common storage facility:

Protect from heat and direct sunlight.
Store in dry conditions.

Further information about storage conditions:

Ambient temperature

Specific end use(s):

Transport: On pallets in truck or wagon at ambient temperature.
Loading and unloading temperature: ambient temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:

Use appropriate local exhaust ventilation.

Control parameters:

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information:

The lists that were valid during the creation were used as basis.

Exposure controls:

Personal protective equipment:

General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Breathing equipment:

Not necessary.

Eye protection:

Face protection

Body protection:

Protective work clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

General information:

Form:

Solid

Color:

Blue

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Odor:	Odorless
Odour threshold:	Not determined
pH-value:	Not applicable
<u>Change in condition:</u>	
Melting point/Melting range:	329°F (165°C)
Boiling point/Boiling range (°F / °C):	Undetermined
Flash point:	626°F (330°C) (DIN 51755)
Flammability (solid, gaseous) (°F / °C):	Not determined
Ignition temperature:	>644°F (>340°C) (DIN 51794)
Decomposition temperature:	Not determined
Auto igniting:	Product is not selfigniting
Danger of explosion: (Vol-%):	Product does not present an explosion hazard
Explosion limits:	lower: Not determined upper: Not determined
Vapor pressure: (mm Hg / hPa):	Not applicable
Density at 68°F (20°C):	7.594-7.928 lbs/gal (0.91-0.95 g/cm³)
Relative density:	Not determined
Vapour density:	Not applicable
Evaporation rate:	Not applicable
Solubility in / Miscibility with Water:	Soluble
Partition coefficient (n-octanol/ water):	Not determined
<u>Viscosity:</u>	
Dynamic:	Not applicable
Kinematic:	Not applicable
<u>Solvent content:</u>	
Organic solvents:	0.0 %
Solids content:	100.0 %
Other information:	No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity:

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Thermal decomposition / conditions to be avoided:

To avoid thermal decomposition do not overheat. No decomposition if used according to specifications. Temperatures > 300 °C and exposure to the sunlight or UV-light can lead to decomposition of the polymers.

Possibility of hazardous reactions:

No dangerous reactions known.

Conditions to avoid:

No further relevant information available.

Incompatible materials:

Strong oxidizing agent, strong bases.

Hazardous decomposition products:

**Carbon monoxide and carbon dioxide
Acrolein, tetrahydrofuran, aldehydes, ketones.****11. TOXICOLOGICAL INFORMATION****Information on toxicological effects:****Acute toxicity, Primary irritant effect:**LD/LC50 values that are relevant for classification:

9003-07-0 Polypropylen:

Oral LD50 ca 0.01 lb/lb (ca 5000 mg/kg) (rat)Primary irritant effect:

on the skin:

Contact with the hot product may cause burns.

on the eye:

Mechanical irritation by particles.

By inhalation:

Low health risk at normal ambient temperatures. When exposed to high temperatures, it may produce vapors and/or aerosol, which irritate the eyes and respiratory tract.

Sensitization:

No sensitizing effects known.

Additional toxicological information:

**The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.**

NTP (National Toxicology Program):

None of the ingredients is listed.**12. ECOLOGICAL INFORMATION**Toxicity:

Aquatic toxicity:

No further relevant information available.

Persistence and degradability:

Not easily biodegradable

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Bioaccumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Additional ecological information: General notes:	Not hazardous for water
Results of PBT and vPvB assessment: PBT:	Not applicable.
vPvB:	Not applicable.
Other adverse effects:	No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Recommendation:	Can be reused after reprocessing. Smaller quantities can be disposed of with household waste.
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

<u>UN-Number:</u> DOT, ADR, ADN, IMDG, IATA:	Void
<u>UN proper shipping name:</u> DOT, ADR, ADN, IMDG, IATA:	Void
<u>Transport hazard class(es):</u> DOT, ADR, ADN, IMDG, IATA: Class:	Void
<u>Packing group:</u> DOT, ADR, IMDG, IATA:	Void
Special precautions for user:	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
UN "Model Regulation":	-

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:
Sara:

Section 355 (extremely hazardous substances):	None of the ingredient is listed.
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Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

9003-07-0 Polypropylen
471-34-1 CaCO₃
Mixture UV Stabilizer
Mixture Pigment Masterbatch

Proposition 65:

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogen categories:

EPA (Environmental Protection Agency):

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH):

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients is listed.

Canadian substance listings:

Canadian Domestic Substances List (DSL):

9003-07-0 Polypropylen
471-34-1 CaCO₃
Mixture UV Stabilizer
Mixture Pigment Masterbatch

Canadian Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%):

None of the ingredients is listed.

GHS label elements:

Void

Hazard pictograms:

Void

Signal word:

Void

Hazard statements:

Void

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS: product safety departement

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· * Data compared to the previous version altered.