

Material Safety Data Sheet

acc.to ISO/DIS 11014

SIGA-Majcoat

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- Majcoat**

Relevant identified uses of the substance or mixture and uses advised against:

Application of the substance / the preparation:

Roof underlay 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 and thermoplastic elastomer TPEE/ 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

Extinguishing media:

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 (NO_x)
Combustible product, melted in the heat.
Smoke.**

Advise for firefighters:

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.

Conditions for safe storage, including any incompatibilities:

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Storage:

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 rolls 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**

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Color:	Dark blue
Odor:	Odorless
Odour threshold:	Not determined
pH-value:	Not applicable
<u>Change in condition:</u>	
Melting point/Melting range:	329–383°F (165-195°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

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Reactivity:

Chemical stability:

Thermal decomposition / conditions to be avoided:

To avoid thermal decomposition do not overheat. No decomposition if used according to specifications. Temperatures >572°F (> 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:

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Section 355 (extremely hazardous substances):	None of the ingredient is listed.
Section 313 (Specific toxic chemical listings):	None of the ingredients is listed.
TSCA (Toxic Substances Control Act):	9003-07-0 Mixture Mixture Polypropylen UV Stabilizer Pigment Masterbatch
<u>Proposition 65:</u> 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.
<u>Cancerogenity categories:</u> 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.
<u>Canadian substance listings:</u> Canadian Domestic Substances List (DSL):	9003-07-0 Mixture Mixture Polypropylen UV Stabilizer 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

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Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

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.