	POLYPROPYLENE LFT-MATERIAL SAFETY DATA SHEET		
	DOCUMENT NUMBER: MSDS-01	REV: 2	EFF. DATE: 11/3/2014

Manufacturer:	Mafic Canada Inc.
Address:	71 Royal Group Cres. Woodbridge ON L4H 1X9
Phone:	905-266-0600 EX 602
Contact:	David Yule
Product ID:	Hoplite PP30A/PP40A
Chemical Name:	Polypropylene Homopolymer
Common Name:	Polymer
Date of Issue:	11/3/2014

1. Composition Information on Ingredients

Name	CAS Number	Composition Percentage
Polypropylene	9003-07-0	
Fiber glass	65997-17-3	

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.

2. Hazards Identification

Emergency Overview

: WARNING


Use only with adequate ventilation.

Wash thoroughly after handling.

Irritating vapors to respiratory system and eyes may form when polymer is processed at high temperatures.

Molten or heated material in skin contact can cause severe burns.

Fiberglass may cause mechanical irritation to the skin, eye and upper respiratory tract.

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2. Hazards Identification Continued

Potential Acute Health Effects

Eyes : Dust may cause mechanical irritation to eye.
Heated Polymer: Eye contact can cause serious thermal burns.
Vapors formed when polymer is heated may be irritating to the eye.

Inhalation : Dusts from this product may cause mechanical irritation of the nose, throat and respiratory tract. Irritating vapors may form when the polymer is processed at high temperatures.

Ingestion : Although ingestion of this product is not likely to occur in industrial applications, accidental ingestion may cause illness or irritation of the mouth and gastrointestinal tract

Skin : Dusts from this product may cause temporary mechanical irritation.
Heated Polymer: skin contact can cause serious thermal burns.

Eyes : Dust may cause mechanical irritation to eye. Heated Polymer: Eye contact can cause serious thermal burns.
Vapors formed when polymer is heated may be irritating to the eye.


Potential Long Term Health Effects

Inhalation : No Specific Data

Ingestion : No Specific Data


Skin : No Specific Data

Eyes : No Specific Data

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3. First Aid Measures

Inhalation	Remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). Keep person warm and at rest. Do not induce vomiting. Get medical attention/advice.
Skin Contact	Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. If irritation persists, seek medical attention. If glass fiber becomes embedded, get medical attention. Heated Polymer: For serious burns from heated polymer, get medical attention. In case of skin contact, immediately immerse in or flush with clean, cold water.
Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. If irritation persists, seek medical attention.
Additional Notes	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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4. Hazards Identification

- Flammability of the Product** : May be combustible at high temperature
- Flash Points** : >200°C (>392°F)
- Products of Combustion** : Fiberglass will not burn, but smoking of the product may occur at approximately 400 - 500 °F (approximately 200 - 260 °C) due to decomposition of the surface binder. Surface binders may decompose in a fire situation and release carbon monoxide, carbon dioxide and water. Additionally, there are many chemicals that can evolve during any partial decomposition of chemical products. The amounts or identities cannot be predicted and can differ in each situation
- Fire Fighting Instructions** : **SMALL FIRE:** Dry chemical extinguisher (ABC or AB). Use water spray or fog. **LARGE FIRE:** Use water spray or fog. Do not use water jet. May re-ignite itself after fire is extinguished.
- Fire Hazards in Presence of Various Substances** : No specific information is available in our database regarding the flammability of this product in presence of static discharge: Possible.
- Explosion Hazards** : Processing or material handling equipment may generate dust of sufficiently small particle size, that when suspended in mid air may be explosive.
- Protective Clothing (Fire)** : Processing or material handling equipment may generate dust of sufficiently small particle size, that when suspended in mid air may be explosive.


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5. Accidental Release Measures

- Personal Precautions** : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment.
- Small Spill and Leak** : Pellets on the floor could present a serious slipping problem. Good housekeeping must be maintained at all times to avoid this hazard. Sweep, shovel, or vacuum material into clean containers.
- Large Spill and Leak** : Use a shovel to put the material into a convenient waste disposal container. Do not allow any potentially contaminated water with pellets to enter any waterway, sewer or drain.

6. Handling and Storage

- Handling** : Handling of plastic may form nuisance dust. Protect personnel. Pneumatic material handling and processing equipment may generate dust of sufficiently small particle size that, when suspended in air, may be explosive. Dust accumulations should be controlled through a comprehensive dust control program that includes, but is not limited to, source capture, inspection and repair of leaking equipment, routine housekeeping and employee training in hazards. See NFPA 654. Dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. When handled in bulk quantities, this product and its associated packaging may present a crushing hazard due to the large masses involved, possibly resulting in severe injury or death. Eating, drinking and smoking should be


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6. Handling and Storage Continued

- Handling Continued** : prohibited in areas where this material is handled, stored and processed. Do not swallow. Do not get in eyes or on skin or clothing.
- Storage** : Keep container dry. Keep container in a cool place. Ground all equipment containing material. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.
- Exposure Control/Personal Protection** : Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

7. Physical and Chemical Properties

- Physical State and Appearance** : Solid (pellets)
- Color** : Black or natural
- Odor** : Odorless
- pH** : Not Available
- Melting / Freezing Point** : 120 to 170°C (248 to 338°F)
- Specific Gravity** : 0.91 to 2.01 (Water = 1)
- Volatility** : Negligible
- Solubility in Water** : Insoluble

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8. Stability and Reactivity

- Stability and Reactivity** : This product is stable. Avoid temperatures above 300°C (570°F).
- Conditions of Instability** : No Additional Remarks.
- Hazardous Decomposition Products** : Hazardous decomposition products are carbon monoxide, carbon dioxide, dense smoke, and various hydrocarbons. Fiberglass products may release small amounts of acetic acid and other organic materials at elevated temperatures.
- Possibility of Hazardous Reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.


9. Toxicology Information

Toxicology Information

- Acute Toxicity** : Not Available
- Chronic Toxicity** : There are no known health effects from the long term use or contact with nonrespirable continuous filament fibers, which is the type of fiber glass used in Hopleite products. There are no known health effects from the long term long term use or contact associated with the resins used in Hopleite LFT products.

10. Ecological Information

- Ecotoxicity** : Avoid release to the environment. This product is not expected to bioaccumulate through food chains in the environment.
- Biodegradable/OECD** : Not readily biodegradable.
- Mobility** : Low mobility in soil predicted. This material floats on water.

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11. Disposal Considerations


- Waste Disposal** : The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

12. Transport Information

- DOT Classification for Bulk Shipments** : Not a DOT controlled material (United States).
- Proper Shipping Name / Description** : Not Applicable.
- UN Number** : Not Applicable.
- Packaging Group** : Not Applicable.
- Marine Pollutant** : Not listed in Appendix B to 49CFR172.101
- Hazardous Substances Reportable** : Quantity: Not listed in Appendix A to 49CFR172.101
- Special Provisions for Transport** : Not Applicable
- TDG Classification** : Not controlled under TDG (Canada).
- IMO/IMDG Classification** : Not controlled under IMDG.
- ICAO/IATA Classification** : Not controlled under IATA.

13. Regulatory Information

- United States inventory (TSCA 8b)** : All components are listed or exempted.
- Australia inventory (AICS)** : All components are listed or exempted.
- Canada inventory (DSL)** :
- China inventory (IECSC)** :
- Japan inventory (ENCS)** :
- Korea inventory (KECI)** :
- New Zealand (NZIoC)** :
- Philippines inventory (PICCS)** :

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13. Regulatory Information

- United States**
- : **CERCLA:** Hazardous substances.: No products were found.
 - SARA 302/304/311/312 extremely hazardous substances:** No products were found.
 - SARA 302/304 emergency planning and notification:** No products were found.
 - SARA 302/304/311/312 hazardous chemicals:** No products were found
 - SARA 311/312 MSDS Distribution** - Chemical Inventory - Hazard Identification: Chemical name CAS # Acute Chronic Fire Reactive Pressure Fibrous glass
- Canada**
- : None Identified.
- Mexico**
- : **Classification:** Flammability 0 Health 1 Reactivity 0

14. Additional Information

- Label Requirements**
- : Irritating vapors to respiratory system and eyes may form when polymer is processed at high temperatures. Molten or heated material in skin contact can cause severe burns Resin has a 1 rating on fire and glass has a 1 rating on health (both are 0 elsewhere) do we put 1 for each of those? (National fire protection association)
- Disclaimer**
- : The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by Mafic, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.