



MATERIAL SAFETY DATA SHEET

MSDS No.:	AHP-GF-001
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1. PRODUCT INFORMATION

MANUFACTURER

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PRODUCT IDENTIFICATION

Product Name: Thermylene®
Product Family: Thermylene - Polypropylene
CAS No.: Mixture (CAS# 9003-07-0)
Product Code: Refer to section below

This MSDS is applicable to the following product list:

P6-20FG-0153 70172	P6-40FG-0684 70174	P-10FG-1100 BK711
P6-20FG-0600 NT101	P6-20FG-0153 20108	P6-20FG-0153 90357
P6-20FG-0153 90374	P6-20FG-0153 90396	P6-20FG-0153 BK711
P6-20FG-0153 NT101	P6-20FG-0684 80176	P6-20FG-0684 BK711
P6-20FG-0684 NT101	P6-20FG-0693 70133	P6-20FG-0693 BK711
P6-20FG-0693 NT101	P6-25FG-1684 50214	P6-25FG-1684 70120
P6-25FG-1684 90391	P6-25FG-1684 90395	P6-25FG-1684 90422
P6-25FG-1684 90454	P-25FG-3809 BK711	P-40FG-0860 90361
P-40FG-0860 BK711	P6-10FG-0100 90327	P6-10FG-0600 NT101
P6-20FG-0659 90144	P-25FG-0100 90317	P-20FG-9100 NT101
P1-10FG-8100 NT101	P6-40FG-0685 90369	P6-40FG-0686 40097
P6-50FG-0600 NT101	P7-20FG-0610 NT101	P7-30FG-1804 50170
P7-30FG-1804 BK711	P7-40FG-0600 BK711	P7-60FG-0790 BK711
P7-40FG-1804 50171	P7-40FG-1804 BK711	P-20FG-9100 NT101
P6-20FG-0860 80190	P6-20FG-0860 WT825	P6-20FG-1685 BK711
P6-20FG-1812 BK711	P6-20FG-1812 NT101	P6-25FG-0632 BK712
P6-25FG-0687 BK711	P6-30FG-0153 NT101	P6-30FG-1684 70130
P6-30FG-0602 70122	P7-45FG-0790 90361	P7-45FG-0790 BK711

P7-45FG-0790 NT101	P7-30FG-0684 40095	P7-30FG-0684 90347
P7-30FG-0684 BK711	P6-30FG-0684 20085	P6-55FG-0754 NT101
P-10FG-2100 BK711	P6-30FG-0600 NT101	P6-15FG-0741 70164
P6-30FG-0684 30064	P6-30FG-0684 90255	P6-30FG-0684 BK711
P6-30FG-0684 NT101	P6-30FG-0684 90331	P6-30FG-0687 BK711
P6-30FG-0687 NT001	P6-30FG-0687 NT101	P6-30FG-0688 BK711
P6-30FG-0688 NT101	P6-30FG-0860-40098	P6-30FG-0860 90433
P6-30FG-0860 BK711	P6-30FG-0860 NT101	P6-30FG-0860 WT825
P6-30FG-1804 20098	P6-30FG-1804 50167	P6-30FG-1804 BK711
P6-40FG-0100 NT101	P6-40FG-0684 70123	P6-40FG-0684 90369
P6-40FG-0684 BK711	P6-40FG-0684 NT101	P6-30FG-0632 90405
P6-30FG-0632 BK711	P6-30FG-0632 NT101	

RECOMMENDED USE AND RESTRICTIONS ON USE

Recommended Use:	Plastic ingredient for home electronics, electronic materials, car materials, industrial material.
Restrictions on Use:	<p>Please do not use our product Thermylene® in the following applications:</p> <ul style="list-style-type: none"> • Medical containers / packaging / equipment / parts of in-vivo, or contact with mucosa, body fluid, blood, chemical solution. • Equipment which can come in contact with food containers / packaging / equipment / parts and drinking water, unless approved by proper agency. • Toys which can come in contact with the mouth, drinking water, etc.

2. HAZARDS IDENTIFICATION

GHS Classification:	Not Classified
HWS Label Element:	
Pictogram or Symbol:	Not Classified
Signal Word:	Not Classified
Specific Hazard:	
Precautionary Statements and Safety Measures:	<ul style="list-style-type: none"> • Do not handle until all safety precautions have been read, understood and precautionary measures are taken. • Do not eat, drink or smoke when using this product. • Wear protective gloves, eye-protection if necessary, Take burn prevention measures especially when handling melted resin. • Install effective local exhaust in extrusion press because gas is generated.
Emergency Overview:	Negligible hazard at room temperature under normal use.
Primary Route(s) of Exposure:	Eye contact, inhalation, ingestion, dermal contact.
Potential Health Effects and Symptoms of Over-Exposure:	
Eye Contact:	Solid particles or dust may cause transient irritation as a result of mechanical abrasion. Process vapors or fumes may cause irritation.
Skin Contact:	Pellets are not likely to cause irritation. Heated material may cause thermal burns.

Inhalation: Exposure to dust during material handling may cause irritation to the respiratory tract. Process vapors or fumes may cause irritation.

Ingestion: May cause choking if swallowed.

Medical Condition Aggravated by Over-Exposure: Not expected.

3. PRODUCT INGREDIENTS

No.	Components	Percent %	CAS No.	Japan Chemical Inventory	EINECS No.
1	Polypropylene	15 - 95	9003-07-0	existing	
2	Glass Fiber	7-65	65997-17-3		
3	Colorants	0-4	Confidential		
4	Additives	0-4	Confidential		

These products do not contain any new chemicals, toxic chemicals and observational substances. All ingredients are listed on TSCA inventory.

4. FIRST AID MEASURES

Eye Contact: Immediately wash eyes with water. Consult physician if irritation or other symptoms occur.

Skin Contact: For serious burns, get medical attention. In case of skin contact with hot polymer, immediately immerse in or flush with clean, cold water. Do not attempt to remove polymer from skin.

Inhalation: Leave exposure area and seek fresh air. Consult physician if irritation to respiratory passages occurs.

Ingestion: Consult physician.

5. FIRE HAZARD DATA AND FIGHTING METHOD

Flash Point: Not Applicable

Auto Ignition: Not Established

Flammable Limits:	Not Applicable
In Air LEL 0.00% UEL 0.00%	
Extinguishing Media:	Dry chemical, carbon dioxide, foam, water spray
Special Fire Fighting Procedure:	In the event of a fire, wear NIOSH approved, positive pressure, self-contained breathing apparatus (SCBA) and full protective clothing.
Unusual Fire and Explosion Hazards:	Avoid accumulation and dispersion of dust to reduce explosion potential. Fire may produce irritating gases and dense smoke. This compound is not known to possess unusual fire and explosion hazards.

6. ACCIDENTAL RELEASE CONTROL MEASURES

Response to Spills:	Product is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems. To prevent the danger of slips or falls, sweep or gather up product and place in proper container for disposal or recovery.
Exposure Guidelines:	This is a polymeric compound. All ingredients are encapsulated by the polymer and present no likelihood of exposure under normal conditions of processing and handling.
Components	OSHA-PEL ACGIH-TLV
Polypropylene	Nuisance dust: 10mg/M3 TWA not determine

7. HANDLING AND STORAGE

Handling:	Maintain good housekeeping. Spilled materials may create a slipping hazard. Remove dust from settling areas to prevent any secondary potential dust explosion or fire hazards. Electrostatic charge may build up during handling. Grounding of equipment is recommended.
Storage:	Store in a dry place and away from direct sunlight or heat sources.
Container Use:	Keep containers closed.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION RECOMMENDATIONS

Eye Protection:	Safety glasses with side shields. Use dust goggles if dust conditions exist.
Skin Protection:	Hot material: Wear heat-resistant protective gloves, clothing and face shield that are able to withstand the temperature of the molten product. Cold material: None required; however, use of protective clothing is good industrial practice.
Respiratory Protection:	None required during normal use of the product. NIOSH approved dust mask recommended if dusty conditions exist.
Engineering Control:	Ventilation Requirements: General ventilation should be sufficient. However, if operating conditions create high airborne concentrations of this material, special ventilation may be needed. If thermal processing results in irritating vapors, special ventilation may be needed. If handling results in dust generation, special ventilation may be needed to ensure that dust exposure does not exceed the OSHA PEL for nuisance dust.
Required Work/Hygiene	Minimize contact with skin. Do not eat, drink, or smoke in the work area. Wash hands thoroughly after handling, especially before eating, drinking,

Procedure: smoking, chewing, or using restroom facility. Dusted clothing and shoes should be thoroughly cleaned before reuse.

9. PHYSICAL/CHEMICAL PROPERTIES

Physical Form: Pellets
Color: Opaque to black
Odor: Slight or No Odor
Molecular Weight: Not Applicable
Boiling Point: Not Applicable
Melting Point:
Freezing Point: Not Applicable
Solubility in Water: Insoluble
Specific Gravity: >.8 g/cucm
Vapor Density: Not Applicable (air=1)
Evaporation Rate: Not Applicable
Vapor Pressure: Not Applicable
Evaporation Rate: Not Applicable
Volatile %: Not Applicable
pH: Not Applicable

The physical data presented above are typical values and should not be construed as a specification

10. STABILITY AND REACTIVITY

Stability: Stable under normal processing/usage guidelines. Follow material processing guidelines.
Reactivity: No reactivity.
Conditions to Avoid: Stable under recommended storage and handling conditions. If heated to more than 300°C, the product may form vapors or fumes which could cause irritation of the respiratory tract, coughing, and shortness of breath. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.
Incompatibility with Various Substances: Strong oxidizing materials
Hazardous Decomposition: Carbon monoxide, carbon dioxide and other harmful products.
Hazardous Polymerization: Will not occur

11. TOXICOLOGY INFORMATION

Acute Toxicity: No data available
Eye Irritation: Product is not considered primary eye irritant.
Skin Irritation: Product is not considered primary skin irritant.
Sensitization: No data available
Mutagenicity: No data available

Carcinogenicity: No data available
GHS Classification of the product cannot be classified according to:
no

12. ECOLOGICAL INFORMATION

No specific ecological information is available. This material is considered to be non-biodegradable.

GHS Classification of the product cannot be classified according to:

- Dangerous Substances Directive (67/548/EEC)
 - Dangerous Preparations Directive (99/45/EC)
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13. DISPOSAL CONSIDERATIONS

Disposal Method: It must be disposed of in accordance with Federal, State and local environmental control regulations.
Recycle/Reclaim: Recycling or reclamation of material should be encouraged where possible.

14. TRANSPORT INFORMATION

US DOT Info: Not classified as hazardous for U.S. DOT.
IMDG (International Maritime Dangerous Goods Code): Not applicable

ICAO-TI (International Civil Aviation Organization - Technical Instructions on the Safe

Transportation of Dangerous Goods by Air):

IATA-DGR (International Air Transport Association - Dangerous Goods Regulations):

UN Classification: Not Applicable

UN Number: Not Applicable

Marine Pollutant: Not Applicable

Do not handle roughly and keep dry. Do not break packaging bag. If the bag is broken and pellet is spilled, pay attention to a slippery floor. If transported by air-conveying line take prevention measures against static discharge.

15. REGULATORY INFORMATION

FEDERAL REGULATORY INFORMATION

Resin Type: (9003-07-3)
OSHA Status: None
EPA Clean Air Act Status: None
EPA Clean Water Act Status: None
TSCA Status: Listed

CERCLA RQ:	None
RCRA Status:	It is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste.

EUROPEAN UNION

Dangerous Substances Directive (97/548/EEC):	
Dangerous Preparations Directive (99/45/EC):	
REACH Annex XVII:	Not registered
ELV (2000/53/EC):	
RoHS (2002/95/EC):	Complies

CHINA

Limited Toxic Chemical Substances for EXport:
Prohibited Cargo List for Import and Export:
List of Dangerous Goods:
List of Hazardous Chemicals:

KOREA

Prohibited or Regulated Toxic Substances:
Toxic Substances:
Observed Substances:

TAIWAN

Dangerous and Harmful Materials:
Toxic Substances:

JAPAN

OTHER REGULATORY INFORMATION

16. MISCELLANEOUS

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