

**SAFETY DATA SHEET**

Experimental

**AsahiKASEI**

Date Prepared : 04/25/2016

SDS No : N26

Thermylon

**1. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Thermylon  
**GENERAL USE:** Injection Molding  
**PRODUCT DESCRIPTION:** Glass Filled Polyamide  
**PRODUCT CODE:** N-18FG-R011 BK712

**MANUFACTURER**

Asahi Kasei Plastics North America  
Asahi Kasei Chemical Co.  
900 E. Van Riper  
Fowlerville, MI 48836

**Emergency Contact:** Product Stewardship  
**Emergency Phone:** 8004444408  
**Alternate Emergency Phone:** 5172235323  
**Customer Service:** 517-223-5352  
**E-Mail:** www.akplastics.com

**24 HR. EMERGENCY TELEPHONE NUMBERS**

**Poison Control Center (Medical) :** (877) 800-5553  
**CANUTEC (Canadian Transportation) :** (613) 996-6666  
**CHEMTREC (US Transportation) :** (800) 424-9300

**COMMENTS:** Restrictions on use: Please do not use our product for the following:  
Medical containers/packaging/equipment/parts of in-vivo, or which contact mucosa, body fluid, blood, chemical solution.  
Equipment, parts which contact with food containers/ packaging/equipment or drinking water.  
Toys which may contact with mouth, drinking water, etc.

**2. HAZARDS IDENTIFICATION****GHS CLASSIFICATIONS**

Combustible Dust, : This product as shipped is not classified as a combustible dust: however, a combustible concentration of dust may occur if fines are suspended in air (e.g. from cutting or sanding).

**GHS LABEL**

OSHA Hazard Category: Combustible Dust  
GHS Hazard Category: Not Classified

**SIGNAL WORD:** WARNING

**EMERGENCY OVERVIEW**

**PHYSICAL APPEARANCE:** Granular solid. Pellets. Powder or Flakes

**IMMEDIATE CONCERNS:** Does not require any hazard warning on the label under established regulatory criteria. No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing. Handling / processing may generate dust which can cause mechanical irritation of the eyes, skin, nose and throat.

**POTENTIAL HEALTH EFFECTS**

**EYES:** No significant irritation expected other than possible mechanical irritation. Heated material can cause thermal burns. Emits acrid smoke and irritating fumes when heated to decomposition.

**SKIN:** No significant irritation expected other than possible mechanical irritation. Heated material can cause thermal burns.

**SKIN ABSORPTION:** None Expected.

**INGESTION:** None expected. May cause choking if swallowed.

**INHALATION:** Dust: Exposure to airborne concentrations well above the recommended exposure limits may cause irritation of the nose, throat, and lungs.

Vapor: 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.

#### REPRODUCTIVE TOXICITY

**REPRODUCTIVE EFFECTS:** Not yet Determined

**TERATOGENIC EFFECTS:** No component of this product at levels greater than or equal to 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

**CARCINOGENICITY:** None of the components in this product at concentrations greater than 0.1% are listed by IARC, NTP, OSHA, or AIGIH as a carcinogen.

**MUTAGENICITY:** No component of this product at levels greater than or equal to 0.1% is classified by established regulatory criteria as a mutagen.

**ROUTES OF ENTRY:** Dermal contact. Eye contact. Inhalation. Ingestion

**TARGET ORGAN STATEMENT:** None

**CANCER STATEMENT:** None Expected.

**IRRITANCY:** Not Established

**SENSITIZATION:** None Expected.

**WARNING CAUTION LABELS:** None Expected.

**HEALTH HAZARDS:** None Expected.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Poly[imino(1-oxy-1,6 Hexandiyl)]	~ 75 - 90	25038-54-4
Fibrous glass strands	~ 10 - 20	65997-17-3
Carbon Black	~ 0.2 - 2	1333-86-4
Additives	0-3%	confidential

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water. Get medical attention if irritation persists.

**SKIN:** For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. No attempt should be made to remove material from skin or to remove contaminated clothing as the flesh can be easily torn.

**INGESTION:** Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

**INHALATION:** If affected by fumes from heated material, remove from source of exposure and move the affected person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Irritation

**SKIN:** Irritation

**SKIN ABSORPTION:** None Expected.

**INGESTION:** None Expected.

**INHALATION:** None Expected.

**ACUTE EFFECTS:** None

**CHRONIC EFFECTS:** None

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## 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Not Classified

**EXTINGUISHING MEDIA:** Use water spray, foam, or dry chemical

**EXPLOSION HAZARDS:** Dusts at sufficient concentrations can form explosive mixtures with air.

**FIRE FIGHTING EQUIPMENT:** Should wear positive pressure self contained breathing apparatus (SCBA) and full turnout gear.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, slight amount of HCN, NH<sub>3</sub> may be generated

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## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Vacuum or sweep up material and place in a designated, labeled waste container.

Avoid runoff into storm sewers and ditches which lead to waterways.

Dispose of via a licensed waste disposal contractor.

**LARGE SPILL:** Contact emergency personnel. Eliminate all ignition sources if safe to do so. Granules spilled on the floor can cause slipping. Fine dust clouds may form explosive mixtures with air. Do not touch or walk through spilled material. Use suitable protective equipment.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Keep out of water ways and storm sewers.

**LAND SPILL:** Vacuum or carefully scoop up spilled material and place in an appropriate container for disposal.

**AIR SPILL:** Concern if large spill and dust clouds are formed.

**GENERAL PROCEDURES:** Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air.

**SPECIAL PROTECTIVE EQUIPMENT:** Should wear chemical/ dust goggles

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## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** No smoking. Use with adequate ventilation. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Avoid dispersal of dust into the air.

**HANDLING:** Avoid strong oxidizer. Main concern is handling molten materials, which can cause thermal burns. Wear proper PPE. Pneumatic conveying of pellets can generate static electrical charges. Make sure equipment is grounded.

**STORAGE:** Keep container tightly closed. Keep in well ventilated area. The main storage issue is related to pallet stock slippage and causing injury to personnel.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. Eliminate ignition sources in areas where dust could be generated. Ensure that dust handling systems are designed in a manner to prevent the escape of dust into work area. It is recommended that all dust control equipment such as local exhaust ventilation contain explosion relief vents or an explosion suppression system.

### PERSONAL PROTECTIVE EQUIPMENT

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**EYES AND FACE:** Safety glasses with side shields. Use dust goggles if high dust concentration is generated.

**SKIN:** Cold or room temp. material: None required. However protective clothing is a good industrial practice.

Hot material: Wear heat resistant protective gloves, clothing and face shield that are able to withstand the temperature of the molten product.

**RESPIRATORY:** To minimize risk of overexposure to dust, vapor, or fumes, it is recommended to work in a properly ventilated area.

**PROTECTIVE CLOTHING:** Standard industry clothing is recommended.

**WORK HYGIENIC PRACTICES:** Wash hands after handling, before eating, smoking, using the lavatory, and at the end of the day.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Melting Point (°C)	Solubility in Water	Specific Gravity
Additives	95	0.01 g/100g solvent	1.14

**PHYSICAL STATE:** Granular solid. Pellets. Powder or Flakes

**ODOR:** Faint odor

**COLOR:** Black

**pH:** Not Available

**FLASH POINT AND METHOD:** > 400°C

**BOILING POINT:** Not Available

**FREEZING POINT:** Not Available

**MELTING POINT:** 250°C to 270°C

**THERMAL DECOMPOSITION:** > 330°C

**SOLUBILITY IN WATER:** Insoluble in water

**SPECIFIC GRAVITY:** 1.1 to 1.8

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** None Expected.

**HAZARDOUS POLYMERIZATION:** Under normal conditions of storage and use, hazardous polymerization will not occur.

**CONDITIONS TO AVOID:** If heated to more than 300C, the product may form vapors or fumes which could cause irritation of the respiratory tract, coughing, and shortness of breath. Avoid creation of dust. Avoid strong oxidizer.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Fumes or vapors

## 11. TOXICOLOGICAL INFORMATION

**GERM CELL MUTAGENICITY:** None Expected.

### CARCINOGENICITY

**IARC:** None Expected.

**NTP:** None Expected.

**OSHA:** None Expected.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** No known significant effects or critical hazards.

**ECOTOXICOLOGICAL INFORMATION:** Not yet Determined

**BIOACCUMULATION/ACCUMULATION:** None Expected.

**GENERAL COMMENTS:** Wildlife may ingest plastic pellets. Although not toxic, such materials may physically block the digestive system, causing starvation or death.

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### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Avoid contact of spills of materials and runoff with soils and surface waterways. Consult an environmental professional to determine if local, regional, or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporter, recyclers, treatment, storage or disposal facilities.

**FOR LARGE SPILLS:** See section 7 and section 8 above

**RCRA HAZARD CLASS:** None

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### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Polyamide - granular

**PRIMARY HAZARD CLASS/DIVISION:** None

**U.S. SURFACE FREIGHT CLASS:** 156200 Class 60

**OTHER SHIPPING INFORMATION:** Not regulated - Not classified as hazardous for transport

**U.S. CUSTOMS HARMONIZATION NUMBER:** 3908.10

**SPECIAL SHIPPING NOTES:** Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of a spill.

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### 15. REGULATORY INFORMATION

#### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** None

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** No **CHRONIC:** No

**SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR370):** na

**313 REPORTABLE INGREDIENTS:** Yes, contact Product Steward

#### 302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** not applicable

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** None

**CERCLA RQ:** None

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

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Chemical Name	CAS
Poly[imino(1-oxy-1,6 Hexandiyl)]	25038-54-4
Fibrous glass strands	65997-17-3
Carbon Black	1333-86-4
Additives	confidential

**TSCA REGULATORY:** All ingredients are listed in TSCA inventory

**TSCA STATUS:** Listed

#### CLEAN AIR ACT

**40 CFR PART 68---RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION:** NA = Not Applicable

#### OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

**29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS:** NA = Not Applicable

#### REGULATIONS

**STATE REGULATIONS:** Yes, contact Product Steward

**CALIFORNIA PROPOSITION 65:** Contains carbon black

Chemical Name	Wt.%	Listed
Carbon Black	~ 0.2 - 2	Cancer

**OSHA HAZARD COMM. RULE:** NA = Not Applicable

**CLEAN WATER ACT:** NA = Not Applicable

**USDA (U.S. DEPARTMENT OF AGRICULTURE):** NA = Not Applicable

**FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):** NA = Not Applicable

**FDA (FOOD AND DRUG ADMINISTRATION):** NA = Not Applicable

**DEA (DRUG ENFORCEMENT PRECURSOR & ESSENTIAL CHEMICALS) LISTED SUBSTANCE:** NA = Not Applicable

#### CANADA

**WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):** Not controlled

**DOMESTIC SUBSTANCE LIST (INVENTORY):** Listed

## 16. OTHER INFORMATION

**REASON FOR ISSUE:** new

**APPROVED BY:** Product Stewardship

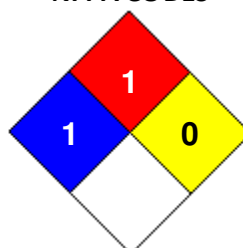
**PREPARED BY:** Product Steward **Date Prepared:** 04/25/2016

**INFORMATION CONTACT:** 517-223-5000

#### HMIS RATING

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input type="checkbox"/>	B

#### NFPA CODES



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