

**MATERIAL SAFETY DATA SHEET****1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: ASACLEAN® newM  
General Use: Purging Compound for plastic injection molding machine and extruder  
Product Description: Blend of additives in Acrylic resin  
MSDS Number: ASIA-M.-002

**MANUFACTURER:**

Company Name: Asahi Kasei Chemicals Corporation  
Address: Asaclean Sales & Marketing Department  
1-105 Kanda Jinbocho, Chiyoda-ku, Tokyo 101-8101, Japan  
Telephone No.: +81-3-3296-3274

**EMERGENCY TELEPHONE NUMBER:**

ASAHI KASEI CHEMICALS Corporation  
Telephone No.: +81-44-271-2503 (ASACLEAN Technology Group)

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

This material consists primarily of high molecular weight polymers which are not expected to be hazardous.

Composition

Components	Percentage (by Wt%)	CAS No.
Acrylic polymer	95~97	9011-87-4
Mineral Oil	<1	Registered
Additives	2~4	Registered

**3. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW:**

Pellets with slight or no odor. Spilled pellets create slipping hazard. Product may be flammable when exposed to constant flame or heat. When product burns, creates dense toxic vapors, gases or fumes. Molten plastic can cause severe thermal burns.

**NOTE:** Fumes produced during melt processing may cause eye, skin and respiratory tract irritation. Secondary operations, such as grinding, sanding or sawing, can produce dust which may present an explosion or respiratory hazard.

**POTENTIAL HEALTH EFFECTS:**

INHALATION: Product inhalation is unlikely due to physical form.

EYES: Product may cause irritation or injury due to mechanical action.

SKIN: Product not likely to cause skin irritation.

INGESTION: Not acutely toxic

**POTENTIAL ENVIRONMENTAL EFFECTS**

CHRONIC TOXICITY / CARCINOGENICITY

NTP: Not Tested

OSHA: Not Regulated

IARC: Classified as Group 3 (not classifiable as to its carcinogenicity to humans.)

**4. FIRST AID MEASURES**

**INHALATION:** Pellets not likely to be inhaled due to physical form. When gas and/or fumes generated from the molten plastics is inhaled, remove the victim from the area to fresh air. For processing fume inhalation irritation, leave contaminated area and breathe fresh air. Seek immediately medical attention.

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**EYE:** Remove contact lens(es) sticks to eye(s). Immediately flush the affected eye(s) well with copious quantity of clean water for at least 15 minutes. Do not rub eye(s) to prevent irritation and damages to cornea(s). Seek immediate medical attention.

**SKIN:** Wash affected area thoroughly with water. For molten plastic skin contact or skin contact with fume condensate, immediately wash thoroughly with soap and water. If irritation develops, seek medical attention.

**INGESTION:** Not probable. If swallowed, seek medical attention.

**PROTECTION TO FIRST-AIDERS**

Molten or hot plastic: Wear long pants, long sleeves, well insulated and impervious gloves and face shield.

Inhalation: Use appropriate respirator for protection from organic vapors and acid gases.

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**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES:** FLASH POINT: Not applicable  
LOWER FLAMMABLE LIMIT: Not applicable  
UPPER FLAMMABLE LIMIT: Not applicable  
EXPLOSION DATA  
IMPACT SENSITIVITY: Not sensitive to mechanical impact  
STATIC DISCHARGE: See 7. HANDLING AND STORAGE

**EXTINGUISHING MEDIA:** Water spray and foam. Water and water-jet are the best extinguishing media. Carbon dioxide and dry chemical may permit re-ignition because of their lack of cooling capacity.

**FIRE FIGHTING INSTRUCTIONS:** Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, carbon dioxide, methyl methacrylate monomer and methyl acrylate monomer. Approved pressure demand breathing apparatus and protective clothing should be used for all fires.

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**6. ACCIDENTAL RELEASE MEASURES**

**LAND SPILL& WATER SPILL:** Product is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. To prevent the danger of slips or falls, sweep or gather up product and place in proper container for disposal or recovery.

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**7. HANDLING AND STORAGE**

**HANDLING:** Should process this material under the recommended temperature range (180~320°C) specified in "ASACLEAN® Technical Information". Avoid long retention at the temperature over 300°C for any extended time (over 30 minutes).  
Long retention at such high temperature will cause liquefaction and generate large quantity of gases. Gases generated in the molding process may cause irritation to the skin and respiratory tract, and in cases of severe over-exposure, nausea and headache. Prevent contact with skin and eyes. Use good industrial hygiene practices. Provide adequate ventilation.  
Secondary operations such as grinding, sanding or sawing may produce a dust explosion hazard due to electrostatic charge or electrical spark. Use aggressive housekeeping activities to prevent dust accumulation. Employ bonding, grounding, venting and explosion relief provisions in accordance with accepted engineering practices.

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**STORAGE:** Store in a dry place away from excessive heat and flame. Avoid direct sunlight. Keep material away from electrostatic charge.

**NOTE:** Product has been designed and tested for purging and cleaning of injection molding machines and extruders, and no other use nor application is recommended.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EXPOSURE LIMIT VALUES:** Not established

**EXPOSURE CONTROLS****Occupational Exposure Controls**

**Engineering Controls:** In cases where possibilities of dust formation, gas generation, or vapor emission exist, provide local ventilation.

**Personal Protection**  
**Respiratory Protection:** When processing fumes are not adequately controlled, use appropriate respirator for protection from organic vapors and acid gases. When dust or powder from secondary operations, (such a grinding, sanding, or sawing) is not adequately controlled, use appropriate respirator for protection from dust.

**Hand Protection:** During melt processing, well insulated and impervious gloves.

**Eye Protection:** Wear safety glasses or chemical goggles while using or handling product. In addition, use full-face shield when cleaning processing fume condensates.

**Skin Protection:** During melt processing, wear long pants, long sleeves, well insulated and impervious gloves and face shield.

**Environmental Exposure Controls**

Particulates not otherwise classified

OSHA PEL: 15 mg/m<sup>3</sup> (Total dust), 5 mg/m<sup>3</sup> (Respirable fraction)

ACGIH TLV-TWA (2007): 10 mg/m<sup>3</sup> (Inhalable particulate), 3mg/m<sup>3</sup> (Respirable particulate)

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Solid and Milk white

**Odor:** Slight or no odor

**pH:** Not Applicable

**Melting Point/Melting Range:** Does not exhibit a sharp melting point, but softens gradually over a wide temperature range about 150°C(300°F).

**Decomposition Temperature:** About 360°C

**Auto Ignition Temperature:** About 400°C(about 750°F)

**Flammability:** See **3. HAZARDS IDENTIFICATION (EMERGENCY OVERVIEW)**.

**Specific Gravity:** 1.19(23°C)

**Solubility:** Water; Insoluble, Solvent; aromatic, ester

**10. STABILITY AND REACTIVITY**

**CONDITIONS TO AVOID:** In order to avoid auto-ignition / hazardous decomposition of hot thick masses of plastic, purgings should be collected in small, flat shapes or thin strands to allow for rapid cooling in water.

**STABILITY:** Stable under recommended conditions of storage.

**MATERIALS TO AVOID:** None

**HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS:**

May include and not limited to: carbon monoxide, carbon dioxide, methyl methacrylate monomer and methyl acrylate monomer.

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**11. TOXICOLOGICAL 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:	Not Available
Mutagenicity:	Not Available
Carcinogenicity:	Classified as 3 (not classifiable as to its carcinogenicity to humans) by IARC.

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**12. ECOLOGICAL INFORMATION**

<b>ECOTOXICITY:</b>	Not expected to be acutely toxic, but pellets, if ingested by waterfowl or aquatic life, may mechanically cause adverse effects.
<b>PERSISTENCE AND BIODEGRADABILITY:</b>	Not Available
<b>BIOACCUMULATIVE POTENTIAL:</b>	Not Available

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**13. DISPOSAL CONSIDERATIONS**

Comply with all national and local regulations.  
Do not dump this product into sewers, on the ground or into any body of water.

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**14. TRANSPORT INFORMATION**

Comply with all national and local regulations.

**LAND TRANSPORT:**

ADR, RID	
Class:	Not applicable
Packing Group (PG):	Not applicable
UN Number:	Not applicable
Proper Shipping Name:	ASACLEAN (Purging Compound)

**SEA TRANSPORT:**

IMDG	
Class:	Not applicable
Packing Group(PG):	Not applicable
UN Number:	Not applicable
Proper Shipping Name:	ASACLEAN (Purging Compound)

**AIR TRANSPORT:**

ICAO/IATA	
Class:	Not applicable
Packing Group (PG):	Not applicable
UN Number:	Not applicable
Proper Shipping Name:	ASACLEAN (Purging Compound)

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**15. REGULATORY INFORMATION**

Please refer to any other national and local regulations in your country.

<Reference>

Comply with below regulations.

In Japan

Fire Prevention Law : Specified Inflammable Materials Law – Synthetic Resins (3000kg or more)

In USA

OSHA STATUS : Not hazardous by definition of Hazard Communication Standard  
(29CFR1910.1200)

TSCA STATUS : All components on TSCA INVENTORY

CERCLA REPORTABLE QUANTITY (40CFR117,302) : Not applicable

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MSDS No. : ASIA-M.-002

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### SARA TITLE III

SECTION 302 (40 CFR 355): Not applicable  
SECTION 311/312 (40 CFR 370): Not applicable  
SECTION 313 (40 CFR 372): Not applicable

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### 16. OTHER INFORMATION

Refer to "ASACLEAN Technical Information"  
MSDS status: The first edition

#### NOTE:

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Asahi Kasei Chemicals Corporation. It relates only to the specific product designated herein, and does not relate to use in combination with any other material or in any process. Asahi Kasei Chemicals Corporation assumes no legal responsibility for use of or reliance upon this information.

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### RECORDS OF REVISION

Jun. 9, 2008: Changed manufacturer's address