
MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ASACLEAN® UP
GENERAL USE: Purging compound for plastic injection molding machines and extruders
PRODUCT DESCRIPTION: Blend of additives in olefinic resin
CHEMICAL NAME: Modified olefinic resin
CHEMICAL OR STRUCTURAL FORMULA: (C₃H₆)_x, etc.
COMPOSITION: Olefinic resin (70%wt), Additives (30%wt)

MANUFACTURER

COMPANY NAME: Sun Plastech, Inc
Address: 1055 Parsippany Boulevard, Suite 205, Parsippany, NJ 07054, USA

EMERGENCY TELEPHONE NUMBER**CHEMTREC**

United States: (800) 424-9300 24 hours Everyday
International: +1-703-527-3887 (Collect) 24 hours Everyday

Non-transportation:

Sun Plastech Inc.

Telephone (973) 257-1999 9 am - 6 pm EST M-F

Asahi Kasei Chemicals Corporation (Japan)

Telephone +81-3-3296-5109 8:30 am - 6 pm Japan Standard Time M - F

2. COMPOSITION / INFORMATION ON INGREDIENTS

This material consists of olefinic resin and additives, which are not expected to be hazardous.

CAS NO.: Registered as each composition
UN CLASSIFICATION & UN NO.: Not Applicable
OSHA HAZARDS (29 CFR 1910. 1200): None

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW:**

Solid pellets with slight or no odor. Spilled pellets create slipping hazard. When material 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**PRIMARY ROUTES OF EXPOSURE**

EYE: Material may cause irritation or injury due to mechanical action

SKIN: Pellets not likely to cause skin irritation.

INGESTION: Not acutely toxic.

INHALATION: Material inhalation unlikely due to physical form.

CHRONIC/CARCINOGENICITY

NTP: Not Tested OSHA: Not Regulated

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

MELT PROCESSING HEALTH EFFECTS:

Molten plastic can cause severe burns.

Processing fumes may cause irritation to the eyes, skin and respiratory tract, and in cases of severe over-exposure, nausea and headache.

MEDICAL RESTRICTIONS:

Certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing fumes.

4. FIRST AID MEASURES

EYE: Remove contact lens(es) at once unless the 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 CONTACT: 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.

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

MELT PROCESSING: For molten plastic skin contact, cool affected area rapidly with water and immediately seek medical attention.

WARNING: Do not attempt removal of plastic without medical assistance.

Do not use solvent for removal.

If coughing, difficult breathing or any other symptoms develop, seek medical attention at once, **even if symptoms develop at a later time.**

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: Not applicable

LOWER FLAMMABLE LIMIT: Not applicable

UPPER FLAMMABLE LIMIT: Not applicable

CONDITIONS OF FLAMMABILITY: Requires a continuous flame source to ignite.

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 reignition because of their lack of cooling capacity.

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

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 material and place in proper container for disposal or recovery.

7. HANDLING AND STORAGE

HANDLING: Should process this material under the recommended temperature range {170°C (340°F) - 300°C (570°F)} specified in "ASACLEAN® Technical Information" (Page 2). Avoid long retention at the temperature over 300°C (570°F) 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.

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

NOTE: This material has been designed and tested for purging and cleaning of molding machine, and no other use nor application is recommended.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: In cases where possibilities of dust formation, gas generation, or vapor emission exist, provide local ventilation.

PERSONAL PROTECTIIVE EQUIPMENT:

EYE/FACE: Wear safety glasses or chemical goggles while using or handling this material. In addition, use full face shield when cleaning processing fume condensates.

SKIN: When handling pellets, avoid prolonged or repeated contact with skin. During melt processing, wear long pants, long sleeves, well insulated and impervious gloves and face shield.

RESPIRATORY: When processing fumes are not adequately controlled, use MSHA/NIOSH-approved respirator for protection from organic vapors and acid gases. When dust or powder from secondary operations, (such a grinding, sanding, or sawing) are not adequately controlled, use MSHA/NIOSH-approved respirator for protection from dust.

EXPOSURE GUIDELINES:

Particulates not otherwise classified

OSHA PEL	: 15 mg/m ³ (Total dust)
	5 mg/m ³ (Respirable fraction)
ACGIH TLV-TWA (1996)	: 10 mg/m ³ (Inhalable particulate)
	3 mg/m ³ (Respirable particulate)

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

ODOR AND APPEARANCE: Slight or no odor. Light yellow

MELTING POINT: Does not exhibit a sharp melting point, but softens gradually over a wide temperature range between 125°C (260°F) and 175°C (350°F).

VAPOR PRESSURE (mmHg): Not applicable

VAPOR DENSITY (air=1): Not applicable

SPECIFIC GRAVITY: 1.05

WATER SOLUBILITY: Insoluble

10. STABILITY AND REACTIVITY

STABILITY: Stable under recommended conditions of storage.

CONDITIONS TO AVOID: In order to avoid autoignition / 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.

INCOMPATIBILITY WITH OTHER MATERIALS: None

HAZARDOUS DECOMPOSITION PRODUCTS: May include and are not limited to: carbon monoxide, carbon dioxide, acrolein and formaldehyde.

AUTOIGNITION TEMPERATURE: 370°C (700°F)

FLAMMABILITY: See 3. HAZARDS IDENTIFICATION(EMERGENCY OVERVIEW)

STORAGE STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: This material is not considered primary eye irritant.

SKIN EFFECTS: This material is not considered primary skin irritant.

ACUTE ORAL EFFECTS: Rats, which were fed 7.95g/kg showed no toxic reactions and gained weight normally (olefinic resin). The toxicological properties of this substance have not been thoroughly investigated.

CARCINOGENICITY: Classified in Group 3 of IARC as olefinic resin (not classifiable as to its carcinogenicity to humans.)

12. ECOLOGACAL INFORMATION

ECOTOXICITY: Not expected to be acutely toxic, but pellets, if ingested by waterfowl or aquatic life, may mechanically cause adverse effects.

13. DISPOSAL CONSIDERATIONS

Comply with all federal, state and local regulation. Do not dispose into sewers, body of water or onto street.

14. TRANSPORT INFORMATION

NOTE: Avoid water and careless handling to prevent damage to the container.

DOT (Department of Transportation)

PROPER SHIPPING NAME: Not regulated

HAZARD CLASS: Not regulated

IDENTIFICATION NUMBER: Not regulated

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

OSHA: Not hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

TSCA: On TSCA Inventory (all components)

CERCLA/SUPERFUND: 40CFR117.302

This material contains no Reportable Quantity Substances.

SARA HAZARD CATEGORY: This material has been reviewed according to the EPA Hazard Categories promulgated under SECTION 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and is considered, under applicable definitions, to meet the following categories:

Not to have met any hazard category.

SARA 313 INFORMATION

This material contains no substance subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40CFR Part 372.

HMIS

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

- HMIS® = Health-0, F-1, R= 0, PPE - B

16. OTHER INFORMATION

Refer to "ASACLEAN® Technical Information" for additional guidance and information.

NOTE: The information furnished in this Material Safety Data Sheet is accurate to the best knowledge of Asahi kasei Chemicals Corporation ("Asahi") as of the date of its publication. This MSDS is not intended to create any liability of any kind on the part of Asahi. In no event will Asahi be responsible for any death, injury or damage of any nature resulting from the use of, reliance upon, or misuse of the MSDS or material to which it refers. The data on this sheet relates only to the specific material designated herein. **No representations or warranties, whether express or implied, of merchantability, fitness for particular purpose, or any other nature, are made hereunder.** This MSDS is not intended as a recommendation for uses that infringe valid patents or extend licenses under valid patents.

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RECORDS OF REVISION

January 1, 2001 : MANUFACTURER (COMPANY NAME) and EMERGENCY TELEPHONE NUMBER (Non-transportation) on 1.

October 17, 2008 : SPI address and "Asahi Kasei Chemicals Corporation" instead of Asahi Kasei Corporation.