

# AsahiKASEI

## SAFETY DATA SHEET

Product Name: ASACLEAN™  
SDS No.: ASA-Gr1-US-002  
First issue: August 28, 2014  
Revised: May 8, 2015  
Form # 056E

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### 1. IDENTIFICATION

Product Name: ASACLEAN™ U, newE, newEX, SA, C, SL  
SDS Number: ASA-Gr1-US-002

#### RESPONSIBLE PARTY IN THE USA:

Company Name: Sun Plastech Inc.  
Address: 1055 Parsippany Blvd.  
Parsippany, NJ 07054  
Telephone number: 1-973-257-1999  
Facsimile number: 1-973-257-1011

#### EMERGENCY TELEPHONE NUMBER:

CHEMTREC

Telephone number: 1-800-424-9300 (US/Canada) or 1-703-527-3887 (International)

#### RECOMMENDED APPLICATION:

Purging compound for thermoplastic injection molding machines and extruders

#### RESTRICTION ON USAGE:

Usage for the following applications is strictly prohibited:

- Being implanted into human body.
- Invasive or non-invasive contact with human body (including blood, body fluids, etc.) continuously for 30 days or more

### 2. HAZARD(S) IDENTIFICATIONS

#### GHS CLASSIFICATION:

##### PHYSICAL AND CHEMICAL HAZARDS:

Combustible solid: Classification not possible  
Metal-corrosive material: Classification not possible  
Those items except the above are out of scope for classification.

##### HEALTH TOXICITY:

Acute toxicity (oral): Classification not possible  
Acute toxicity (dermal): Classification not possible  
Acute toxicity (Inhalation: gases): Classification not possible  
Acute toxicity (Inhalation: vapors): Classification not possible  
Acute toxicity (Inhalation: dusts / mists): Classification not possible  
Skin corrosion / irritation: Classification not possible  
Serious eye damage / eye irritation: Classification not possible  
Respiratory sensitization: Classification not possible  
Skin sensitization: Classification not possible  
Germ cell mutagenicity: Classification not possible  
Carcinogenicity: Classification not possible  
Reproductive toxicity: Classification not possible  
Specific target organ / systemic toxicity (single exposure): Classification not possible  
Specific target organ / systemic toxicity (repeated exposure): Classification not possible  
Aspiration Hazard: Classification not possible

##### HAZARDOUS TO THE AQUATIC ENVIRONMENT:

Toxicity to the aquatic environment (acute): Classification not possible  
Toxicity to the aquatic environment (chronic): Classification not possible

##### GHS LABEL ELEMENTS:

Pictograms: None  
Signal word: None  
Hazard statements: None

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Precautionary statements: None

【First-aid】: Refer to “4. FIRST-AID MEASURES”

【Storage】: Refer to “7. HANDLING AND STORAGE”

【Disposal】: Refer to “13. DISPOSAL CONSIDERATIONS”

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Classification of the substance or mixture: Mixture

Grade Type	Composition	Content %	CAS No.
U	Styrenic resin Resin additives Inorganic additives	More than 50 Less than 20 Less than 30	Rgstd/Non-disclosed Rgstd/Non-disclosed Rgstd/Non-disclosed
newE	Styrenic resin Resin additives Other additives	More than 80 Less than 10 Less than 10	Rgstd/Non-disclosed Rgstd/Non-disclosed Rgstd/Non-disclosed
newEX	Styrenic resin Resin additives Inorganic additives(Include GF) Other additives	Less than 50 Less than 10 Less than 50 Less than 10	Rgstd/Non-disclosed Rgstd/Non-disclosed Rgstd/Non-disclosed Rgstd/Non-disclosed
SA	Styrenic resin Resin additives	More than 80 Less than 20	Rgstd/Non-disclosed Rgstd/Non-disclosed
C	Styrenic resin Resin additives Inorganic additives Other additives	Less than 50 Less than 10 More than 50 Less than 10	Rgstd/Non-disclosed Rgstd/Non-disclosed Rgstd/Non-disclosed Rgstd/Non-disclosed
SL	Styrenic resin Resin additives Inorganic additives Other additives	More than 80 Less than 10 Less than 10 Less than 10	Rgstd/Non-disclosed Rgstd/Non-disclosed Rgstd/Non-disclosed Rgstd/Non-disclosed

The specific chemical identities and percentages of composition have been withheld as trade secrets.

### 4. FIRST-AID MEASURES

**INHALATION:** When feeling sick by inhaling gas and / or fumes generated from molten plastics, move the victim from the area to fresh air and wait for recovery. Seek medical attention.

**SKIN CONTACT:** For skin contact with powder or pellets, wash thoroughly with soap and water. For skin contact with molten plastic, immediately wash thoroughly and cool down with soap and water. Hardened resin on the skin should not be forcibly peeled off. Seek medical attention if there is a burn.

**EYE:** Because there is a possibility of damaging the eyeball, immediately flush the affected eye(s) with copious quantity of clean water for at least 15 minutes. Remove contact lens(es) at once unless the lens(es) is/are stuck to eye (s).

**INGESTION:** If swallowed, induce vomiting. Seek immediate medical attention if abnormality is felt.

**PROTECTION TO FIRST-AIDERS:** Ventilate gas generated from the molten plastics. Wear protective gear.

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## 5. FIRE-FIGHTING MEASURES

- EXTINGUISHING MEDIA:** Water spray, water-jet and other various fire extinguishers.
- SPECIFIC HAZARDS / TOXICITY AT FIRE:** May emit gases including carbon monoxide, carbon dioxide, nitrogen oxide, etc.
- FIRE-FIGHTING INSTRUCTIONS:** Extinguish fire from a windward direction
- PROTECTION TO FIRE-FIGHTERS:** Wear protective clothing. In case of large amount of gases, emitted, breathing apparatus should be used.

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## 6. ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTION:** When both pellets and powders are spilled on the floor, promptly clean to prevent slipping.
- ENVIRONMENTAL NOTES:** Due to possible adverse affects to fish, birds, etc., immediately clean up any material that may have spilled into bodies of water.
- REMOVAL METHOD:** Sweep with vacuum cleaner, broom, etc., and dispose of properly.
- PREVENTIVE MEASURE OF SECONDARY DISASTER:** None

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## 7. HANDLING AND STORAGE

- HANDLING:** Application temperature: Refer to Table 1 on page 7 of 7.
- 1) Though there is less likelihood of pellets igniting under normal temperatures, avoid any fire/ignition sources in the vicinity of the product and perform adequate housekeeping to keep the surrounding clean.
  - 2) Cool down purge pile with water.
  - 3) Ensure proper ventilation since resins processed at high temperatures will emit gases. Local ventilation preferably should be provided.

**STORAGE:**

**SUITABLE STORAGE CONDITION:**

- 1) Store material in away from heat and ignition sources.
- 2) Avoid direct sunlight.
- 3) Store material away from high temperatures and high humidity.

**SAFE CONTAINER MATERIAL FOR PACKING:** Use appropriate storage containers.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Provide local exhaust ventilation for comfortable working environments.

**CONTROL OF CONCENTRATION:** Not established

**EXPOSURE LIMITS:** Although ACGIH has not established the allowable concentration for dust, the following values are considered to be appropriate for operation.

ACGIH (2014 version):

Allowable concentration as general dust (TWA)

INHALABLE PARTICULATE: 10mg / m<sup>3</sup>

RESPIRABLE PARTICULATE: 3 mg / m<sup>3</sup>

**INDIVIDUAL PROTECTION MEASURES:**

- Respiratory organ:** Box respirator for organic gas should be worn when working in areas where inhalation of high temperature gases is possible.
- For hand:** Wear heat-proof gloves when molten resin is handled.
- For eye:** During purging operation, resin-made glasses and resin-made goggles with side-shields should be worn.
- For skin & body:** Work wear with long sleeves is recommended when molten resin is handled.
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE:

Physical form:	Solid
Shape:	Pellet
Color:	Milky white ~ light yellow, (SL: Transparency and the white are mixed.)
Odor:	Specific slight odor
Odor threshold:	Not available
pH:	Not applicable
Melting Point:	Does not exhibit sharp melting point, but softens at about 80°C for SL and about 130°C for other types.
Decomposition Temperature:	No data
Flash Point:	380°C
Auto-ignition Temperature:	490°C
Explosive Limits	
Lower Limit:	Not applicable (Lower limit for dust explosion: 35g/m <sup>3</sup> )
Upper Limit:	Not applicable
Specific Gravity:	Refer to Table 1 on page 7 of 7.
Solubility:	
Water:	Insoluble
Other solvent:	Soluble in methyl ethyl ketone, cyclohexanone, etc. (except for inorganic content).
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Partition coefficient:	Not available
Viscosity:	Not available

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## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal temperature.

**REACTIVITY:** None

### CONDITIONS TO AVOID:

- Avoid using outside the specified range for the use temperature.
- Do not let sit in barrel for more than 30 minutes at temperatures above 300°C for U, newE, SA, C, SL
- Do not let sit in barrel for ANY amount of time at ANY temperature for newEX.

**MATERIALS TO AVOID:** None

### HAZARDOUS / TOXIC DECOMPOSITION PRODUCTS:

- May produce carbon monoxide, carbon dioxide, nitrogen oxide, etc. during incineration. May produce methyl methacrylate during pyrolysis.
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### 11. TOXICOLOGICAL INFORMATION

	Base Resin	Resin Additives	Inorganic Additives (Including GF)	Other Additives	Composition (Product)
Acute Toxicity (oral)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)
Acute Toxicity (Dermal)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)
Acute Toxicity (Inhalation: gases)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)
Acute Toxicity (Inhalation: vapor)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)
Acute Toxicity (Inhalation: dust / mist)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)
Skin Corrosion / Irritation	Classification not possible (No data available)	Classification not possible (No data available)	Category 2 (newEX)	Classification not possible (No data available)	Classification not possible Remarks*
Serious Eye Damage/ Eye Irritation	Classification not possible (No data available)	Classification not possible (No data available)	Category 2B (newEX)	Classification not possible (No data available)	Classification not possible Remarks*
Respiratory or Skin Sensitization	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)
Germ Cell Mutagenicity	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)
Carcinogenicity	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)
Reproductive Toxicity	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)
Specific Target Organ / Systemic Toxicity (single exposure)	Classification not possible (No data available)	Classification not possible (No data available)	Category 3 Respiratory tract irritation (newEX)	Classification not possible (No data available)	Classification not possible Remarks*
Specific Target Organ / Systemic Toxicity (repeated exposure)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)
Respiratory Toxicity by Inhalation	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)

(Remarks):

\*: Even though the product is classifiable for some items if looked solely as a GF (glass fiber) unit, it's labeled as "Classification not possible" as a form of kneaded-pellet product since it (GF content) is judged as having little effect.

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### 12. ECOLOGICAL INFORMATION

	Base Resin	Resin Additives	Inorganic Additives	Other Additives	Composition (Product)
Hazardous to The Aquatic Environment (Acute)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)
Hazardous to The Aquatic Environment (Chronic)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)

### 13. DISPOSAL CONSIDERATIONS

Refer to all federal, state and local regulations.

Do not dump this product into sewers, on the ground or into any body of water.

### 14. TRANSPORT INFORMATION

#### LAND TRANSPORT

ADR, RID, DOT

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)

### 15. REGULATORY INFORMATION

USA

OSHA: Hazard Communication Rule, 29 CFR, 1910.1200.  
 TSCA Inventory: All ingredients are listed or exempt.  
 EPCRA Section 312/313: No ingredients are listed above reportable quantities.  
 CERCLA Hazardous Substances: No ingredients are listed above reportable quantities.  
 Canada: Canadian Environmental Protection Act, 1999

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.*

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**16. OTHER INFORMATION**

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.

According to our company policy, both usages of this product to purge when producing the following medical equipment written below and to produce general medical equipment itself are strictly prohibited.

- Being implanted into human body.
- Invasive (human body) applications
- Contact with human body (including blood, body fluid, etc.) continuously for 30 days or more.

For any other medical-related applications, please contact the Asaclean Business Department. (Phone +81-3-3296-3274).

**For any query with respect to what is contained herein, please refer to:**

Asaclean Technical Group

Asahi Kasei Chemicals Corporation

1-3-1 Yakoh, Kawasaki-ku, Kawasaki City, Kanagawa, 210-0863, Japan;

Tel: +81-44-271-2503, Fax: +81-44-271-2333

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(Table1)

Grade Type	Temperature Range for Use (Unit: °C)	Specific Gravity (23°C)
U	180~360	1.25
newE	160~300	1.06
newEX	200~360	1.48
SA	180~360	1.04
C	180~360	1.63
SL	150~300	1.05

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