

# SAFETY DATA SHEET

Product Name: ASACLEAN™  
SDS No.: ASA-Gr2-SG-002  
First issue : September 1, 2018  
Revised: January 15, 2019

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## 1. IDENTIFICATION

Product Name: ASACLEAN™ UP, newUP, HP, UF2, UL2, UB, SX, CP, FD, HR, SN  
SDS Number: ASA-Gr2-SG-002

### SUPPLIERS DETAILS

Supplier: Nagase Singapore Pte Ltd.  
Address: 600 North Bridge Road #11-01 Parkview Square Singapore 188778  
Telephone number: +65-66450-305  
Facsimile number: +65-63980-236  
Manufacturer: Asahi Kasei Corporation  
Department: ASACLEAN Business Dept.  
Address: Hibiya Mitsui Tower, 1-1-2 Yurakucho, Chiyoda-Ku, Tokyo 100-0006,  
Japan  
Telephone number: +81-3-6699-3274  
Facsimile number: +81-3-6699-3458

**EMERGENCY TELEPHONE NUMBER:** +65-66450-305 (9:00-17:00)

### 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: vapours): 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

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## GHS LABEL ELEMENTS:

Pictograms: None

Signal word: None

Hazard 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 %	Gazette Notice Title(Relevant Laws)	CAS No.
UP	Olefinic resin	More than 50	Rgstd/Non-disclosed	Non-disclosed
	Resin additives	Less than 10	Rgstd/Non-disclosed	Non-disclosed
	Inorganic additives	Less than 40	Rgstd/Non-disclosed	Non-disclosed
newUP	Olefinic resin	More than 80	Rgstd/Non-disclosed	Non-disclosed
	Resin additives	Less than 10	Rgstd/Non-disclosed	Non-disclosed
	Other additives	Less than 10	Rgstd/Non-disclosed	Non-disclosed
HP	Olefinic resin	More than 50	Rgstd/Non-disclosed	Non-disclosed
	Resin additives	Less than 10	Rgstd/Non-disclosed	Non-disclosed
	Inorganic additives	Less than 30	Rgstd/Non-disclosed	Non-disclosed
	Other additives	Less than 10	Rgstd/Non-disclosed	Non-disclosed
UF2	Olefinic resin	More than 80	Rgstd/Non-disclosed	Non-disclosed
	Resin additives	Less than 10	Rgstd/Non-disclosed	Non-disclosed
	Inorganic additives	Less than 10	Rgstd/Non-disclosed	Non-disclosed
UL2	Olefinic resin	More than 70	Rgstd/Non-disclosed	Non-disclosed
	Resin additives	Less than 20	Rgstd/Non-disclosed	Non-disclosed
	Inorganic additives	Less than 10	Rgstd/Non-disclosed	Non-disclosed
UB	Olefinic resin	More than 70	Rgstd/Non-disclosed	Non-disclosed
	Resin additives	Less than 10	Rgstd/Non-disclosed	Non-disclosed
	Inorganic additives	Less than 20	Rgstd/Non-disclosed	Non-disclosed
SX	Olefinic resin	More than 50	Rgstd/Non-disclosed	Non-disclosed
	Resin additives	Less than 50	Rgstd/Non-disclosed	Non-disclosed
CP	Olefinic resin	More than 60	Rgstd/Non-disclosed	Non-disclosed
	Resin additives	Less than 10	Rgstd/Non-disclosed	Non-disclosed
	Inorganic additives	Less than 50	Rgstd/Non-disclosed	Non-disclosed
	Other additives	Less than 10	Rgstd/Non-disclosed	Non-disclosed
FD	Olefinic resin	Less than 50	Rgstd/Non-disclosed	Non-disclosed
	Resin additives	Less than 20	Rgstd/Non-disclosed	Non-disclosed
	Inorganic additives	Less than 50	Rgstd/Non-disclosed	Non-disclosed
HR	Olefinic resin	More than 90	Rgstd/Non-disclosed	Non-disclosed
	Resin additives	Less than 5	Rgstd/Non-disclosed	Non-disclosed
	Other additives	Less than 10	Rgstd/Non-disclosed	Non-disclosed
SN	Olefinic resin	Less than 45	Rgstd/Non-disclosed	Non-disclosed
	Resin additives	Less than 10	Rgstd/Non-disclosed	Non-disclosed
	Inorganic additives	More than 40	Rgstd/Non-disclosed	Non-disclosed
	Other additives	Less than 5	Rgstd/Non-disclosed	Non-disclosed

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

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## 4. FIRST-AID MEASURES

- INHALATION:** If you feel unwell by inhalation of vapour or gas produced from melted material, move to fresh air and keep at rest in a position comfortable for breathing.  
Call a doctor if you feel unwell.
- SKIN CONTACT:** In case of pellets or powder, wash with plenty of water/soap.  
In case of melted material, immerse in cold water.  
Do not peel off any solidified resin on the skin.  
In case of burns, get medical advice/attention.
- EYE CONTACT:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists, get medical advice/attention.
- INGESTION:** Rinse mouth. Do NOT induce vomiting.  
Immediately call a doctor.
- FIRST-AIDER PROTECTION:** Wear personal protective equipment gloves, safety glasses and respirator to avoid skin/eye contact, inhalation and ingestion during treatment process.

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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 degraded polyolefin and oxidized substances thereof, 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

- NOTES ON HUMAN BODY:** When pellets and powder 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:**
- 1) Using condition /temperature, prohibition(\*1):Refer to Table 1 on page 7 of 7.
  - 2) 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.
  - 3) Cool down purge pile with water as soon as possible.
  - 4) Ensure proper ventilation since resins processed at high temperatures will emit gases. Local ventilation preferably should be provided.
  - 5) Change ASACLEAN to other material immediately after the temperature reaches preset temperature in case of starting up of machine or temperature changing.
  - 6) Turn off the heater or lower barrel temperature 150°C or less in case of ASACLEAN sitting in the barrel one hour or longer.

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## STORAGE:

### SUITABLE STORAGE CONDITION:

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

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

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**MEASURES FOR FACILITIES:** Provide local exhaust ventilation, for comfortable working environments.

**CONTROL OF CONCENTRATION:** Not established

**ALLOWABLE CONCENTRATION:** Although neither Japan Association of Industrial Health nor ACGIH established the allowable concentration for dust, the following values are considered to be appropriate for operation.

ACGIH (2018 version):

Allowable concentration as general dust (TWA)

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

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

### PROTECTIVE TOOLS:

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

Colour: Milky white ~ light yellow

Odour: Specific slight odour

pH: Not applicable

### TEMPERATURE RANGES WHEREIN PHYSICAL FORM CHANGES:

Melting Point: (UP,newUP,HP,CP) 154~164°C  
(UF2,UL2,UB,SX,SN) 130~135°C  
(FD,HR) 120~130°C

Flash Point(\*2): Refer to Table 1 on page 7 of 7.

Auto-ignition Temperature(\*3): Refer to Table 1 on page 7 of 7.

### Explosive Limits

Lower Limit: Not applicable (Lower limit for dust explosion: 15g/m<sup>3</sup>)

Upper Limit: Not applicable

Specific Gravity(\*4): Refer to Table 1 on page 7 of 7.

### Solubility:

Water: Insoluble

Other solvent: Insoluble for organic solvent under normal temperature.

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## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal temperatures.

**REACTIVITY:** None

**CONDITIONS TO AVOID:**

- Avoid using outside the specified temperature range.
- Do not let sit in barrel for more than 30 minutes at the temperature higher than 280°C (UP, newUP, HP, UF2, UL2, UB, CP).
- Do not let sit in barrel for ANY period of time at 370°C. (SX)

**MATERIALS TO AVOID:** None

**HAZARDOUS / TOXIC DECOMPOSITION PRODUCTS:**

Degraded polyolefin and oxidized substances thereof, etc

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## 11. TOXICOLOGICAL INFORMATION

	Base Resin	Resin Additives	Inorganic Additives	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)	Category 4 (HR)	Classification not possible Remarks*
Acute Toxicity (Dermal)	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Not classified (HR)	Classification not possible Remarks*
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: vapour)	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)	Classification not possible (No data available)	Category 2 (HR)	Classification not possible Remarks*
Serious Eye Damage/ Eye Irritation	Classification not possible (No data available)	Classification not possible (No data available)	Classification not possible (No data available)	Category 2A (HR)	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)	Classification not possible (No data available)	Category 3 tract irritation (HR)	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 other additives are classified for some items, the product's labeled as "Classification not possible" judged from the additives' concentration.

## 12. ECOLOGICAL INFORMATION

Toxicity: There are no specific data on neither this product nor each ingredients.  
 Persistence and Degradability: No data available  
 Bio accumulative potential: No data available  
 Mobility in soil: No data available  
 Other adverse effects: No known significant effects to critical hazards.

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## 13. DISPOSAL CONSIDERATIONS

Refer to all 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

### 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

### Safety, health and environmental regulations/legislation specific for the product

Environmental Protection and Management Act: Not applicable

Workplace Safety and Health Act: Not applicable

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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 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 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 Dept.  
(Phone +81-3-6699-3274)

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

ASACLEAN R&D Dept.

Asahi Kasei 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	*1; Using condition		*2; Flash Point (Unit: °C)	*3; Auto-ignition Temperature (Unit: °C)	*4; Specific Gravity (23°C)
	Temperature Range (Unit: °C)	<u>Prohibition</u> condition (*)			
UP	170~300	Sit in the barrel 30 minutes or longer at 280~300°C	330	390	1.09
newUP	170~300		330	390	0.90
HP	170~300		330	390	1.04
CP	170~300		330	390	1.35
UF2	170~320	Sit in the barrel 30 minutes or longer at 280~320°C	380	400	0.95
UL2	170~320		380	400	0.98
UB	170~320		380	400	0.99
SX	300~370	Sit in the barrel at 370°C	380	400	0.96
FD	140~260	-	410	420	1.30
HR	170~260	-	330	390	No data
SN	150~300	-	420	460	1.44

\*Note: All ASACLEAN grades should be prevented from siting in the barrel for one hour or longer at the temperature above 150°C.

Records of revision

January 15, 2019: Added SN grade