

SAFETY DATA SHEET

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1. IDENTIFICATION

Product Name: ASACLEAN™ PX2, PF
SDS Number: ASA-Gr3-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 application 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
Precautionary Statements: None

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【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.
PX2	Polycarbonic resin	Less than 60	Rgstd/Non-disclosed
	Resin additives	Less than 10	Rgstd/Non-disclosed
	Inorganic additives(Incl. GF)	Less than 50	Rgstd/Non-disclosed
	Other additives	Less than 10	Rgstd/Non-disclosed
PF	Polycarbonic resin	More than 70	Rgstd/Non-disclosed
	Resin additives	Less than 10	Rgstd/Non-disclosed
	Inorganic additives	Less than 20	Rgstd/Non-disclosed
	Other additives	Less than 10	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 that hardens 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 swallowing, induce vomiting. Seek immediate medical attention if abnormality is felt.
- PROTECTION TO FIRST-AIDERS:** Ventilate gas generated from the molten plastics / Wear protective gear.

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, and carbon dioxide, 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.**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:**
- 1) Application temperature: PX2, PF: 280~420°C
 - 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.
 - 4) 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

CONTROL OF CONCENTRATION: Not established

ALLOWABLE CONCENTRATION: 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 / m³

RESPIRABLE PARTICULATE: 3 mg / m³

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 goggle with side-shields should be worn.
- For skin & body: Work wear with long sleeves is recommended when molten resin is handled.

9. PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE:**

- Physical form: Solid
- Shape: Pellet
- Color: Milky white
- Odor: Specific slight odor
- pH: Not applicable
- Odor threshold: Not available
- Melting Point: Does not exhibit sharp melting point, but softens at about 150°C for type PX2 and PF.
- Decomposition Temperature: No data
- Flash Point: PX2 and PF: >460°C
- Auto-ignition Temperature: PX2 and PF: >520°C
- Explosive Limits

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Lower Limit: Not applicable
Upper Limit: Not applicable
Specific Gravity: PX2: 1.61, PF: 1.26
Solubility:
Water: Insoluble
Other solvent: Soluble in aromatic and ester solvents
Vapor pressure: Not available
Vapor density: Not available
Relative density: Not available
Partition coefficient: Not available
Viscosity: Not available

10. STABILITY AND REACTIVITY**STABILITY:** Stable under normal temperature.**REACTIVITY:** None**CONDITIONS TO AVOID:**

- Avoid using outside the specified temperature range.
- Do not let sit in barrel at temperatures higher than 370°C for PF
- Do not let sit in barrel for ANY amount of time at ANY temperature for PX2.

MATERIALS TO AVOID: None**HAZARDOUS / TOXIC DECOMPOSITION PRODUCTS:**

The product may emit gases such as carbon monoxide, carbon dioxide, etc. during incineration.

11. TOXICOLOGICAL INFORMATION

	Base resin	Resin Additives	Inorganic Additives (Incl. 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)	Category 5 (PX2, PF)	Classification not possible (Remarks*1)
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 (PX2)	Classification not possible (No data available)	Classification not possible (Remarks*2)
Serious Eye Damage/ Eye Irritation	Classification not possible (No data available)	Classification not possible (No data available)	Category 2B (PX2)	Classification not possible (No data available)	Classification not possible (Remarks*2)
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)

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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	Classification not possible (No data available)	Classification not possible (Remarks*2)
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 (Remarks)
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):

In the column of "Composition (Product)", other types of grade except those grades specifically categorized therein are "Classification not possible".

*1: Since inclusion of other additives is less than 0.5%, the product is labeled as "Classification not possible".

*2: 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.

12. ECOLOGICAL INFORMATION

	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

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

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
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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.

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 Department. (Phone +81-3-3296-3274).

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

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Records of revision

April 1, 2016 : Changed company name (Asahi Kasei Corporation)
