

SAFETY DATA SHEET

AsahiKASEI

Finished product

Date Prepared 09/28/2018

SDS No EX-6-1

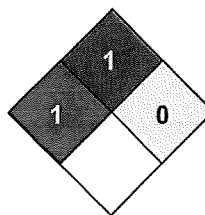
In accordance with OSHA 29 CFR 1910.1200 HCS
 WHMIS 2015
 NBR 14725-4:2014
 NCh 2245:2015
 IRAM 41400-2006
 NOM-018-STPS-2015

ASACLEAN™ EX

HMIS RATING

HEALTH		1
FLAMMABILITY	1	
PHYSICAL HAZARD	0	
PERSONAL PROTECTION	A	

NFPA CODES



16. OTHER INFORMATION

REASON FOR ISSUE: GHS SDS format

PREPARED BY: ASACLEAN R&D Department, Asahi Kasei Corporation

Date Prepared: 09/28/2018

REVISION SUMMARY:

Section 1: PRODUCT AND COMPANY IDENTIFICATION, Section 2: GHS CLASSIFICATION and LABEL, Section 7: LOADING TEMPERATURE, Section 9: AUTOIGNITION TEMPERATURE, FLASH POINT AND METHOD, Section 10: CONDITIONS TO AVOID, Section 15: REGULATORY INFORMATION, Section 16: OTHER INFORMATION.

DATA SOURCES: SDS provided by Suppliers and common industry information

DISCLAIMER: The information in this Safety Data Sheet is based upon data considered to be accurate at the time of its preparation. This information in no way modifies, amends, enlarges or creates any specification or warranty, and all warranties, expressed or implied, including without limitation the warranties of merchantability and fitness for a particular purpose, are hereby excluded. This information is a recommendation for safe handling, use, processing, storage, transportation, disposal, and release, and Sun Plastech Inc. shall not be responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices, or from hazards inherent in the nature of the product/material. This information relates only to the specific product /material designated and may not be valid for such product/material used in combination with any other product/material or in any process, unless otherwise specified.

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(Remark) Even though each raw material is classifiable for some items if looked solely as a glass unit, it's labeled as "Not Classified" as a form of kneaded-pellet product since it is judged as having little effect.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: There are no specific data on neither this product nor each ingredient.

PERSISTENCE AND DEGRADABILITY: No data available

BIOACCUMULATIVE POTENTIAL: No data available

MOBILITY IN SOIL: No data available

RESULTS OF PBT and vPvB ASSESSMENT: No data available

OTHER ADVERSE EFFECTS: No further data

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Avoid contact of spills of materials and runoff with soils and surface waterways. Consult an environmental professional to determine if local, regional, or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporter, recyclers, treatments, storages or disposal facilities.

PRODUCT DISPOSAL: Dispose according to local laws to an approved waste disposal facility.

EMPTY CONTAINER: Recycle when possible, or dispose of according to local laws

14. TRANSPORT INFORMATION

Note: This mixture is not regulated as dangerous goods for transport.

	DOT (DEPARTMENT OF TRANSPORTATION)	IMO/IMDG	ICAO/IATA
UN number	Not classified	Not classified	Not classified
UN proper shipping name	Not classified	Not classified	Not classified
Transport hazard class(es)	Not classified	Not classified	Not classified
Packing group	Not classified	Not classified	Not classified
Environmental hazards	None	None	None
Special precautions for user	None	None	None
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable

15. REGULATORY INFORMATION

USA

OSHA:

Hazard Communication Rule, 29 CFR, 1910.1200.

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exhaust for processing temperatures 200-330 °C (390-625 °F). However if using material between 330-360 °C (625-680 °F), it is required to have local ventilation or half face NIOSH respirator.

Do not use this product over 360 °C (680 °F). NIOSH/OSHO or EN approved respiratory protection is recommended for use when airborne concentrations exceed exposure limits.

PROTECTIVE CLOTHING: Standard industry clothing is recommended.

WORK HYGIENIC PRACTICES: Wash hands after handling, before eating, smoking, using the lavatory, and at the end of the day.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

APPEARANCE

PHYSICAL STATE: Solid

SHAPE: Pellets

COLOR: Milky white - light yellow

ODOR: Faint to strong

ODOR THRESHOLD: Not Available

pH: NA = Not Applicable

MELTING POINT: Does not exhibit sharp melting point, but softens at about 130°C (266°F)

FREEZING POINT: NA = Not Applicable

BOILING POINT: No data available

FLASH POINT AND METHOD: 380°C (716°F)

EVAPORATION RATE: NA = Not Applicable

FLAMMABILITY: No data available

UPPER/LOWER FLAMMABILITY LIMITS: No data available

VAPOR PRESSURE: Not Available

VAPOR DENSITY: Not Available

FREEZING POINT: NA = Not Applicable

SPECIFIC GRAVITY: 1.48 at 23°C (73°F)

SOLUBILITY

WATER: Insoluble

OTHER SOLVENT: Soluble in methyl ethyl ketone, cyclohexanone, etc. (except for inorganic content)

PARTITION COEFFICIENT (log K_{ow}): No data available

AUTOIGNITION TEMPERATURE: 490°C (914°F)

DECOMPOSITION TEMPERATURE: No data available

VISCOSITY: NA = Not Applicable

EXPLOSIVE PROPERTIES: No data available

OXIDIZING PROPERTIES: No data available

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ASACLEAN™ EX

protective clothing.

EXTINGUISHING MEDIA: Use water spray, foam, or dry chemical**HAZARDOUS COMBUSTION PRODUCTS:** Hazardous combustion products may include: intense heat, dense black smoke, styrene, ethylbenzene, etc.**EXPLOSION HAZARDS:** Dusts at sufficient concentrations may form explosive mixtures with air.**FIRE FIGHTING EQUIPMENT:** Water spray, water jet or foam is recommended. Dry chemical or carbon dioxide not recommended as they have lower cooling capacity.**FIRE EXPLOSION:** Dust explosions are possible at high concentrations.**SENSITIVITY TO IMPACT:** None Expected.**SPECIAL PROTECTIVE EQUIPMENT:** None Expected.

6. ACCIDENTAL RELEASE MEASURES**SMALL SPILL:** Vacuum or sweep up material and place in a designated, labeled waste container.

Avoid runoff into storm sewers and ditches which lead to waterways.

Dispose of via a licensed waste disposal contractor.

LARGE SPILL: Vacuum or sweep up material and place in designated, labeled waste container.

Dispose of via a licensed waste disposal contractor.

ENVIRONMENTAL PRECAUTIONS**WATER SPILL:** Keep out of water ways and storm sewers.**LAND SPILL:** Vacuum or carefully scoop up spilled material and place in an appropriate container for disposal.**AIR SPILL:** None Expected.**GENERAL PROCEDURES:** Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Avoid dispersal of dust in the air.

SPECIAL PROTECTIVE EQUIPMENT: None Expected.

7. HANDLING AND STORAGE**HANDLING:** When handling the pellets in the original container, it is recommended to wear gloves to prevent any irritation. Handle safely to prevent any spills. If handling molten material, avoid directly breathing any gases from the molten purge and wear appropriate gloves. 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. And cool down the purge pile with water. Ensure proper ventilation since resins processed at high temperatures will emit gases. Local ventilation preferably should be provided.

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ASACLEAN™ EX**1. PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME:** ASACLEAN™ EX**GENERAL USE:** Purging Compound for thermoplastic injection molding machines and extruders.**PRODUCT DESCRIPTION:** Styrenic resin based Purge Compound**PRODUCT CODE:** ASACLEAN™ EX**SUPPLIER**

Sun Plastech Inc.
 Asahi Kasei Group
 1055 Parsippany Blvd
 Parsippany, NJ 07054

Customer Service and Product Safety: (973) 257-1999**Manufacturer**

Asahi Kasei Corporation
 Hibiya Mitsui Tower, 1-1-2 Yurakucho, Chiyoda-Ku, Tokyo 100-0006 Japan
 Department in charge: ASACLEAN Business Dept.

24 HR. EMERGENCY TELEPHONE NUMBERS**CHEMTREC (International):** (703) 527-3887**CHEMTREC (US/ Canada):** (800) 424-9300

COMMENTS: Restrictions on Use - Use of this material in the following applications is strictly prohibited: Being implanted into the human body, invasive or non-invasive contact with the human body (including blood, bodily fluids, etc.) continuously for 30 days or more.

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
 [GHS (Rev. 7) (2017)]

Health: Solid form (pellets) is unlikely to present a health hazard**Environmental:** None**Physical:** Combustible dusts [OSHA: HCS]**GHS Label elements****Pictogram:** No Pictogram**Signal Word:** Warning [OSHA: HCS]**Hazard statements:** May form combustible dust concentrations in air [OSHA: HCS]**Other hazards**

ASACLEAN MECHANICAL GRADE PURGING INSTRUCTIONS for INJECTION MOLDING

1. Check that all zones are in the proper temperature range for the grade of ASACLEAN being used.
 2. Retract the injection unit. Empty screw and barrel. Clean hopper and feed throat.
 3. Feed 1-2 barrel capacities of ASACLEAN into the feed throat.
 4. With the screw completely forward, increase the backpressure to the maximum level.
 5. After ASACLEAN begins coming from the nozzle, increase the screw speed to the maximum safe level.
 6. Drop the backpressure after the ASACLEAN coming from the nozzle is almost clean.
 7. Retract the screw and perform short, high-velocity injection shots.
 8. Repeat steps 3-7 if contaminants are still visible.
 9. Displace the ASACLEAN remaining in the machine with the next resin, again, at the maximum backpressure and maximum safe screw speed with the screw completely forward.
- ASACLEAN mechanical grades do not depend on chemical reactions. No soak time is required for an effective purge.
 - For maximum performance, ASACLEAN should not be diluted with other materials.
 - Do not use EX, PX2, or NF glass-filled grades for hot runner cleaning.

Temperature Ranges:

<u>Grade</u>	<u>°C</u>	<u>°F</u>	<u>Grade</u>	<u>°C</u>	<u>°F</u>
U	180-330	355-625*	E	160-300	320-570
EX	200-330	390-625*	PF	280-420	535-790
UP	170-300	340-570	PX2	280-420	535-790
HP	170-300	340-570	NC	180-330	355-625
SX	300-370	570-700	NF	180-330	355-625*
NH	180-330	355-625*	NB	180-330	355-625

*If processing between 330°C-360°C(625°F-680°F), local ventilation is required.

Tips to target specific areas of the molding machine

Nozzle or check ring hang-up - Color or carbon

Raise the temperature of the nozzle 20-30°C (35-55°F). If purging a heat sensitive resin, do not exceed the safe processing temperature of the material. Feed a small amount of ASACLEAN (less than half barrel capacity). Repeat short, high-velocity injections shots until clean.

Exercise proper safety precautions and use appropriate PPE.

Technical Questions?

To request detailed technical bulletins or technical support, contact us at Sun Plastech Inc.

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