

Safety Data Sheet

According to Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006 (REACH)

Revision no: 2

Printing date: 13/03/2015

1. Identification of the mixture and the company

1.1. Product identifier

Product name **Ultra Purge PET-E**

1.2. Relevant identified uses of the mixture and uses advised against

Identified uses: purging compound conceived for removing unwanted residues from machines processing thermoplastic polymers (injection molding machines, extruders, etc.)

1.3. Details of the supplier of the safety data sheet

Italy

M.P.I. S.r.l. – Moulds Plus International
Via D. Carbone, 104
I-15050 Villalvernia AL
Phone +39 0131 836136

USA

Moulds Plus International USA, Inc.
1521 E McFadden Unit G
Santa Ana CA 92705
Phone +1-714-708-2663

Mexico

Moulds Plus Mexico S.A. de C.V.
Ahorro Postal 103
Col. Miguel Aleman Del. Benito Juarez
03420 Mexico, D.F.
Phone +52 55 8590-8834

E-mail address of the competent person responsible for the SDS:
lab@ultrapurge.com

1.4. Emergency telephone number

Contact the nearest sales office (section 1.3) during office hours.

2. Hazards identification

2.1. Classification of the mixture

Classification according to Reg (EC) No 1272/2008:

The mixture is not classified according to the CLP regulation.

Classification according to Directive 1999/45/EC:

This product is not classified as dangerous.

2.2. Label elements

In accordance to European regulations, labeling of this product is not required.

2.3. Other hazards

Criteria for PBT and vPvB in accordance with Annex XIII:

The mixture does not contain any substance that meets these criteria.

3. Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Ultra Purge PET-E is composed of a modified polymer carrier and an active part.

The carrier is a styrene-based polymer.

The active part is a blend of inorganic salts and organic acids.

All of the Ultra Purge ingredients are affirmed as GRAS (Generally Recognized As Safe) by the FDA as substances added indirectly to human food.

4. First aid measures

4.1. Description of first aid measure

After inhalation:

In case of vapors/gases released by the molten material move the person away from the contaminated area or outdoors. Seek medical assistance.

After skin contact:

In case of contact with melted material: treat as a burn. Cool down with cold water and seek medical assistance. Do not remove the solidified product from the skin.

After eye contact:

Open the eye and rinse for several minutes with tap water. If the eye contact is with the melted material, seek medical assistance immediately.

After ingestion:

No specific measure requested in case of ingestion. If necessary, seek medical assistance.

4.2. Most important symptoms and effects, both acute and delayed

Molten material can cause severe burns.

Gas/vapors released by heat: irritation of the respiratory organs and eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

None

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water, water spray, foam, dry chemicals, carbon dioxide.

Unsuitable extinguishing media:

According to our present knowledge, none.

5.2. Special hazards arising from the mixture

The preparation, when involved in a fire, releases fumes made up of water, carbon dioxide, carbon monoxide and other combustion products.

Overheating/pyrolysis evolves vapors made up of monomers (styrene), low molecular weight polymers and their oxidation products.

5.3. Advice for fire-fighters

Wear suitable protective clothing and protect respiratory organs. Cool endangered receptacles with water spray.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not walk on granules to avoid slipping.

6.2. Environmental precautions

No special measures required.

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6.3. Methods and material for containment and cleaning up

Collect mechanically.
Reuse it if possible or dispose in accordance to regulations in force.

6.4. Reference to other sections

None

7. Handling and storage

7.1. Precautions for safe handling

Handle as a thermoplastic resin. Before processing Ultra Purge, always read the SDS of the resin(s) that will be in direct or indirect contact with Ultra Purge.

During the processing of the product, avoid inhalation of fumes or powders, by providing good ventilation of the workroom or air extraction system.

7.2. Conditions for safe storage, including any incompatibilities

Store out of direct sunlight, in well ventilated, cool and dry area.
Be sure to seal the Ultra Purge container after usage.
The active ingredient of Ultra Purge may become softer and/or sticky but this will not alter the effectiveness of the product.
Ultra Purge shelf life is 18 months, if the product is stored according to our recommendations.

7.3. Specific end use(s)

Not applicable

8. Exposure controls/personal protection

8.1. Control parameters

Ingredients with national limit values that require monitoring at the workplace:

The mixture does not contain any relevant amount of materials with critical values that have to be monitored at the workplace.
The lists valid at the moment of compilation were used as reference.

8.2. Exposure controls

Appropriate engineering controls:

See section 7.

Individual protection measures, such as personal protective equipment:

- General protective and hygienic measures: traces of monomers and other volatile substances may be given off during processing, particularly at unusually high processing temperatures.
Workrooms must be provided with adequate ventilation or air extraction system.
- Eye/face protection: not necessary when no powders or vapors are present. If available, wear goggles.
- Skin protection: wear work clothing and shoes.
Wear heat-proof gloves and long sleeves clothing when molten product is handled.
- Respiratory protection: in case of insufficient ventilation and when dust are generated wear mask conforming to EN 143 equipped with a P1 type filter.
- Thermal hazards: none.

Environmental exposure controls:

Avoid release into the environment. Do not discharge into drains.

9. Chemical and physical properties

9.1. Information on basic physical and chemical properties

Appearance: white or colorless plastic pellets mixed with light grey tablets
Odor: odorless

Odor threshold:	data not available
pH (active part solution in water, 10% w/w):	> 7.5
Melting point:	> 95 °C (203°F)
Boiling point:	not applicable - decompose
Flash point:	data not available
Evaporation rate:	Not applicable
Flammability (solid, gas):	not flammable
Lower/upper explosion limits:	Not applicable
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Bulk density:	0.70 g/cm ³ @ 25°C
Solubility:	negligible in water, soluble in organic solvents
Partition coefficient n-octanol/water:	Not applicable
Auto-ignition temperature:	>450°C (842°F)
Decomposition temperature:	>320°C (608°F)
Viscosity:	Not applicable
Explosive properties:	Not applicable
Oxidizing properties:	Not applicable

10. Stability and Reactivity

10.1. Reactivity

If Ultra Purge is stored and handled in suggested conditions: none.

10.2. Chemical stability

If Ultra Purge is stored and handled in suggested conditions, the mixture is stable.

10.3. Possibility of hazardous reaction

If Ultra Purge is stored and handled in suggested conditions, no dangerous reactions are known.

10.4. Conditions to avoid

During storage, avoid temperatures higher than 80°C (176°F) because the active part starts to react.
The material is moisture sensitive. It is important to store it in a dry place and always close the containers between usages.
During processing avoid using outside the specified temperature range.
In case higher temperatures are required contact the supplier for advice.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

If thermal decomposition occurs, fumes made up of water, carbon dioxide, carbon monoxide and other combustion products can be released.
In this product thermal decomposition is accompanied also by formation and subsequent release of styrene, aromatic hydrocarbons and derivatives.

11. Toxicological information

11.1 Information on toxicological effects

Considering our experience and the information provided to us, the product does not have any harmful effects if used and handled according to specifications.

Acute toxicity:

Based on available data, the product is not toxic.
Ld50/ Lc50 (oral rat): >>10000mg/kg

Skin corrosion/irritation:

The product does not have irritant effects.

Serious eye damage/irritation:

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The product's powder may cause eye irritation.

Sensitization:

No sensitizing effects known.

Repeated dose toxicity:

Data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

No evidence of these effects has been reported, neither in literature.

12. Ecological information

12.1. Toxicity

The product is not classified as dangerous for the environment.

12.2. Persistence and degradability

The product is essentially a high molecular weight polymer, not regarded as ecotoxic.

The product does not undergo biodegradation, oxidation or hydrolysis at noticeable rate.

12.3. Bio accumulative potential

The product does not accumulate in organisms.

12.4. Mobility in soil

Data not available.

12.5. Results for PBT and vPvB assessment

The product does not contain substances identified as PBT/vPvB.

12.6. Other adverse factor

No more information is available.

13. Disposal considerations

13.1. Waste treatment methods

The same safety consideration applied to the product as it is can be also applied to scraps/waste.

Residues should be disposed of as required by national and local regulations.

After suitable treatment (cleaning, grinding, etc.), the product can be safely re-used, as it is or mixed with fresh material, when this is compatible with the intended final application.

Under approved conditions incineration is only suitable at facilities equipped with a scrubber for the treatment of fumes before the release into the atmosphere and when possible with energy recovery.

Landfilling should be avoided as far as possible. If unavoidable, use approved landfill sites.

Returnable packaging may be reused after decontamination.

Disposable packaging has to be disposed of according to national and local regulations.

14. Transport Information

Transport and packaging ARE NOT SUBJECTED to regulations on transport of hazardous materials (RID/ADR).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixture: exempt.

All components/ingredients are listed under the TSCA (Toxic Substances Control Act) inventory.

All components/ingredients are RoHS compliant.

Tallow/BSE/TSE: we do not use tallow or any other derived materials in the manufacture of Ultra Purge.

REACH: All components/ingredients are, where necessary, registered or pre-registered substances according to the REACH regulation. Also the product doesn't contain any substance belonging to the candidate list SVHC (Substances of Very High Concern).

All components/ingredients are substances included in the DSL list set out in Part II of the Canada Gazette.

All components/ingredients are substances included in the IECSC list established by Chinese government.

All components/ingredients are substances included in the KECI list established under the Toxic Chemicals Control Act (Korea).

German water hazard class (WGK): non-hazardous to water.

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been done.

16. Other information

Safety Data Sheet (SDS) - Disclaimer

Safety Data Sheet should be kept and maintained because they provide necessary, helpful, and useful information on the properties of the chemical or chemical product.

Any use of this data and information must be determined by the user to be in accordance with applicable Federal, State and local laws/regulations.

You should familiarize yourself with those properties, such as flammability, corrosiveness and toxicity as well as storage and handling information, before you work with the chemical.

It is vital to your personal safety that you are able to refer to this SDS immediately in the event of an emergency such as a spill, fire or physical contact with the chemical.

Disclaimer for Sales Products

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Technical information transferred verbally, in written form or by means of a trial, are given in good faith but without warranty. This includes the proprietary rights of third parties involved.

Our advice does not release you from the obligation to verify the information currently provided and to test our products as to their suitability for the intended processes and uses.

Moulds Plus International is not be held liable for any damage, death, injury or expense arising out of or in any way connected with the handling, storage, use or disposal of the Ultra Purge products.

The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.

Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

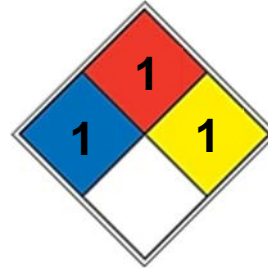
Processing note

Under the recommended processing conditions small quantities of decomposition product may be given off during processing.

Tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation and fresh air at the workplace in accordance with the Safety Data Sheet.

To prevent partial decomposition of the polymer and generation of volatile decomposition products, the prescribed processing condition (T, residence time, etc.) should not be substantially exceeded.

Since excessively high temperatures are generally the result of operator error or defects in the heating system, special care and controls are essential in these areas.



HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	1
PERSONAL PROTECTION	A