



Purging Compounds

Ultra PLAST HT

Ready to use Purging Compound

ULTRA SYSTEM

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ULTRA PLAST HT

Ready to use Purging Compound

Ultra Plast is a specially developed cleaning compound that is delivered in a premixed and ready-to-use pellet form. It is specific for the cleaning of endless screws, barrels, nozzles, hotrunners and extrusion heads to remove burnt material (colour) rests, deposits, incrustations and black specks during colour and/or material change specifically for **PEEK, PPS, PPO, GRIVORY HT, ULTEM** and for **polymers with flame-retardants and/or UV-stabilizers**.

At a processing temperature ranging from 280° C to 400° C (536 to 752°F) it removes, at the temperature of the previously processed material any incrustation and deposit.

The compound is **not abrasive** and works with a chemical reaction. Due to particular chemical components, coloured and burnt polymers, incrustations, black specks and also rust are softened, removed and ejected from the press. Consequently **NO MECHANICAL ACTION** is made on the machine parts!

If used frequently, it will preserve all the equipment from steel oxidation and make the following cleaning process quicker and easier.

It cleans at the processing temperature of the previous production material and no soak time is required. It is recommended for hot runners.

Ultra Plast is not toxic and is odourless. It will not damage your equipment because it does not contain solvents: all components are qualified as GRAS (Generally Recognized As Safe) by FDA .

It may happen that running Ultra Plast in older machines, where the equipment is overused, the cleaning process may not remove all old rests of material ran months ago. In this case, a second run may be required to fully purge the machine.

It is highly recommended that the container be properly sealed after each use. The forming of small clots of sticky substance may occur. Please note that this will not alter the efficiency of the product.

The recommended storage time for Ultra Plast is 12-18 months.

Instructions for use on injection presses :

- Increase barrel temperature by 10-30°C (if possible); this operation is not strictly necessary but may give a better cleaning result
- Load screw, barrel with neutral grade of plastic resin (possibly suitable material) and run the machine as long as the material comes out with a lighter colour (i.e. from red to pink and from dark blue to light blue)
- Load Ultra Plast (one or twice the net capacity of the barrel) and begin injection cycle. **Do not leave the purging compound longer than one minute inside the hopper and/or inside the barrel with still standing screw**
- Purge with neutral material in order to eliminate all rests of the purging compound.
- Begin normal production

Instructions for use for cleaning on extruders :

- Load screw, barrel with neutral grade of plastic resin (possibly suitable material) and run the machine as long as the material comes out with a lighter colour
- Remove nozzle filter if there is any
- Load ULTRA PLAST HT and run the machine at a 20-30°C increased temperature (if possible)
- Reduce screw speed to slow rpm so that the purging compound can expand inside the machine The ejected purging compound should be foamy; if not, reduce further screw speed
- If the purging material comes mainly out from the venting hole, it is necessary to increase the screw speed or try to close the venting. If the venting is connected with a vacuum pump, switch it off.
- For bigger machines, before ejecting the purging compound leave it inside the screw for one minute (if possible)
- Eject purging compound as long as it is visibly clean
- Load neutral or production material and run the machine in order to eliminate all rests of the purging compound inside the machine

MATERIAL SAFETY DATA SHEET

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1. IDENTIFICATION ELEMENTS OF THE COMPOUND AND COMPANY

1.1 COMPOUND IDENTIFICATION ELEMENTS DENOMINATION:

ULTRA PLAST HT

1.2 COMPANY IDENTIFICATION DATA:

COMPANY NAME: ULTRA PLAST ASIA CO.,LTD.

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1.3 URGENT INFORMATION: Mr. Erich Ziegler (668) 4554 6464 , Mr. Navin (668) 1827 7359

2. COMPOSITION/AGENTS INFORMATION

2.1 CHEMICAL FEATURES: THE DETERGENT MIXTURE ULTRA PLAST CONTAINS INORGANIC AND INERT SALTS AND OTHER COMPONENTS CONSIDERED AS CONFIDENTIAL INFORMATION. ALL COMPONENTS ARE GRAS QUALIFIED (GENERALLY RECOGNIZED AS SURE) BY FDA.

2.2 PRODUCT DESCRIPTION: BLEND OF ADDITIVES IN OLEFINIC RESIN

2.3 DANGEROUS COMPONENTS: NONE

3. DANGERS / WARNING

3.1 RISK DESCRIPTION: MOLTEN PLASTIC CAN CAUSE SEVERE BURNS.

3.2 SPECIAL INFORMATION OF PARTICULAR RISKS FOR MAN AND ENVIRONMENT: NONE

4. MEDICAL FIRST AID INFORMATION

4.1 GENERAL INFORMATION

4.2 BY INHALATION: NO PARTICULAR PRECAUTION IS REQUIRED

5. FIRE PRECAUTIONS

5.1. SUITABLE EXTINGUISHING EQUIPMENT: ATOMIZED WATER JET, EXTINGUISH DUST, SAND, FOAM, CARBON DIOXIDE

5.2 EXSTINGUISH MATERIAL UNSUITABLE FOR SAFETY REASONS: ACCORDING TO OUR PRESENT KNOWLEDGE THERE IS NONE

5.3 PARTICULAR DANGERS COMING FROM THE SUBSTANCE, FROM THE SAME COMPOUND, FROM THE COMBUSTION PRODUCTS OR FROM THE EXHALED GASES: AS FOR EVERY POLYMERIC PRODUCT, A WRONG COMBUSTION MIGHT PROVOKE CARBON MONOXIDE FUMES.

5.4 SAFETY EQUIPMENT FOR FIRE WATCHERS: RESPIRATOR IN CASE OF UNVENTILATED AREA

6. MEASURES BY ACCIDENTAL OUTRUSH

6.1 PERSONAL PRECAUTIONS - NO PARTICULAR PRECAUTION IS REQUIRED

6.2 ENVIRONMENT PROTECTION - COMPLY WITH LOCAL REGULATIONS

6.3 CLEANING/GATHERING PROCEDURES: USE OF MECHNICAL MEANS

7. HANDLING, STORAGE AND USAGE

7.1 HANDLING: HANDLE AS A THERMOPLASTIC RESIN. BEFORE INTRODUCE ULTRA PURGE IN THE MACHINE READ ALWAYS THE MSDS OF THE PRODUCT WITH ULTRA PURGE WILL BE IN CONTACT WITH

7.2 STORAGE: STORE IN A COOL AND DRY AREA, NORMALLY VENTILATED MAKE SURE THAT THE BUCKET IS PERFECTLY CLOSED AFTER TAKING OF QUANTITY NECESSARY FOR MORE OR LESS IMMEDIATE USE. THE FORMATION OF SMALL CLOTS OF STICKY SUBSTANCE INSIDE THE BAG DOES NOT INJURY THE EFFICIENTCY OF THE PRODUCT, IT JUST SHOWS THE MOISTURE ABSORPTION INDEX.

8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

8.1 GENERAL PRECAUTIONS

WHEN CLEANING THE PRESS OR THE EXTRUDER, FOLLOW THE SAME PRECAUTIONS AS IF WORKING WITH MELTED POLYMERS

8.2 CONCENTRATION LIMITS IN THE WORKING AND BIOLOGIC AREAS

8.3 RESPIRATORY SYSTEM PROTECTION

WHEN CLEANING THE PRESS OR THE EXTRUDER FOLLOW THE SAME PRECAUTIONS AS IF WORKING WITH MELTED POLYMERS

8.4 HAND PROTECTIONS

WHEN CLEANING THE PRESS OR THE EXTRUDER FOLLOW THE SAME PRECAUTIONS AS IF WORKING WITH MELTED POLYMERS

8.5 EYE PROTECTION

WHEN CLEANING THE PRESS OR THE EXTRUDER FOLLOW THE SAME PRECAUTIONS AS IF WORKING WITH MELTED POLYMERS

9. CHEMICAL AND PHYSICAL PROPERTIES

PHYSICAL STATE : SOLID GRANULES

ODOUR : ODOURLESS

PH : N.A.

BOILING POINT FROM: -

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MELTING POINT FROM: 70 °C
INFLAMMABILITY POINT FROM: >300 °C
IGNITION TEMPERATURE: >450 °C
EXPLOSIVE PROPERTIES: NONE
COMBUTION PROPERTIES: NONE
COMPARATIVE DENSITY AT 25° C: 0.70 GR/CC
SOLUBILITY: NEGLIGIBLE WATER SOLUBILITY
THERMAL DECOMPOSITION: STARTS AT 85°C

10. STABILITY AND REACTIVITY

10.0 GENERAL INFORMATION

NO DANGEROUS REACTION IS KNOWN IF STORAGE AND HANDLING ARE PERFORMED IN COMPLIANCE WITH THE INSTRUCTIONS

10.2 HAZARDOUS CONDITIONS: AVOID TEMPERATURES HIGHER THAN 80°C. **EXCEPT** DURING THE USE OF THE PRODUCT, DO NOT EXCEED THE TEMPERATURE OF 400°C IN CASE A PRODUCT FOR HIGHER TEMPERATURES IS REQUIRED, PLEASE APPLY TO THE SUPPLIER

10.3 HAZARDOUS SUBSTANCES: NONE

10.4 DANGEROUS DECOMPOSITION PRODUCTS IF STORAGE AND HANDLING ARE PERFORMED AS PER INSTRUCTIONS: NONE

11. TOXICOLOGICAL INFORMATION

11.1 GENERAL PRACTICES

ON THE GROUND OF OUR PRESENT KNOWLEDGE IT IS PHYSIOLOGICALLY TOLERABLE. ACCORDING TO OUR PRESENT KNOWLEGE IT IS NEITHER ALTERABLE, NOR CANCEROGENOUS NOR TERATOGENOUS. ITS COMPONENTS ARE "GRAS" BY FDA.

11.2 ACUTE TOXICITY

LD/LC50 VALUES REMARKABLE FOR CLASSIFICATION

LD50/LC50(ORAL RAT): >10,000MG/KG

12. ECOLOGICAL INFORMATION

12.1 PERSISTENCE AND BIODEGRADABILITY

THE POLYMERIC ELEMENT IS NOT BIODEGRADABLE (PE, PS, PMMA.....OR AS SHOWN ON THE LABEL) THE REMAINING PART IS COMPLETELY BIODEGRADABLE.

12.2 ENVIRONMENT EFFECTS

A BIOLOGIC ACCUMULATION IS UNLIKELY.

12.3 ECOTOXIC EFFECT

IT IS DETERMINED THAT THERE ARE NO HARMFUL ECOTOXIC EFFECTS TO THE FISH

HOW TO HANDLE SITUATION WHEN PRODUCT GETS INTO WATER PLANT:

IT IS DETERMINED NOT TO HAVE ANY HARMFUL EFFECTS IN THE WATER PLANT

12.4 MORE ECOLOGIC INDICATIONS

HANDLE WITH CARE AND CORRECT USAGE SO AS TO NOT CAUSE ANY NEGATIVE EFFECTS TO THE ENVIRONMENT

13. CONSIDERATIONS FOR PROPER DISPOSAL

13.1 DISPOSAL OF THE PRODUCT OR ITS RESIDUALS: CAN BE DISPOSED BY BURNING, LANDFILL OR ACCORDING TO CITY REGULATIONS

13.2 CONTAINER DISPOSAL

CAN BE DISPOSED BY BURNING, LANDFILL OR ACCORDING TO CITY REGULATIONS

14. TRANSPORT INFORMATION

14.1 THERE IS NO DANGER OR RESTRICTION FOR ANY MODE OF TRANSPORT

15. REGULATIONS INFORMATION

15.1 LABELLING IN COMPLIANCE WITH EUROPEAN (CEE) REGULATIONS: EXEMPT

16. ADDITIONAL INFORMATION

ALL DATA SHOWN ON THIS SHEET ARE BASED ON THE INFORMATION AVAILABLE AT OUR COMPANY ON THE LAST ISSUE DATE. THEY DO NOT MEAN ANY ASSURANCE FOREVERY SPECIFIC FEATURE OF THE PRODUCT AND REPRESENT NO CONTRACT OBLIGATION.

THE USER MUST MAKE SURE OF THE CONFORMITY AND COMPLETENESS OF INFORMATION WITH REGARD TO THE SPECIFIC USE OF THE PRODUCT.

THE INFORMATION FURNISHED IN THIS MSDS IS NOT INTENDED TO CREATE ANY LIABILITY OF ANY KIND ON THE PART OF ULTRA SYSTEM. IN NO EVENT ULTRA SYSTEM SRL WILL BE RESPONSIBLE FOR ANY DEATH, INJURY OR DAMEGE OF ANY NATURE RESULTING FROM THE USE OF RELIANCE UPON, OR MISURE OF THE MSDS OR MATERIAL TO WHICH IT REFERS. THE DATA ON THIS SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNED HEREIN.

THIS MSDS IS FURNISHED UNDER THE EXPRESS CONDITION THAT ALL PERSON RECEIVING IT WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR PURPOSE PRIOR TO USE. RESPONSIBILITY FOR THE COMPLIANCE WITH APPLICABLE FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING DISSEMINATION OF THE MSDS AND SALE AND USE OF THE MATERIAL TO WHICH IT REFERS RESTSSOLELY UPON THE PURCHASER.