



# aquapurge

purging compounds  
for the plastics industry

# PolyClear HMEX

## Safety Data Sheet

Performed and reported by: John Steadman, Technical Director

Date: 15th September



Unit 7, Craufurd Business Park, Silverdale Road, Hayes, Middlesex UB3 3BN. UK.



+44 (0) 20 8813 7990



+44 (0) 20 8848 8404



enquiries@aquapurge.com



## SAFETY DATA SHEET Poly Clear HM EX

### 1 IDENTIFICATION OF THE PREPARATION AND THE COMPANY

PRODUCT NAME: Poly Clear HM EX  
SUPPLIER: Aquapurge  
Unit 7, Craufurd Business Park  
Silverdale Road,  
Hayes, Middlesex UB3 3BN  
Telephone: 020 8813 7990

#### EMERGENCY TELEPHONES:

020 8813 7990 (Office hours)  
07850 852 872 (Transport emergencies: 24 hours)

### 2 COMPOSITION/INFORMATION ON INGREDIENTS

#### COMPOSITION COMMENTS

Contains ingredient(s) as follows, which are either unclassified or below the concentration requiring declaration under the CHIP Regulations:  
Polyethylene, sequestrant(s), surfactant(s), defoamer(s), inhibitor(s), inorganic alkaline salt(s), organic(s) and water

### 3 HAZARDS IDENTIFICATION

None

### 4 FIRST AID MEASURES



**INHALATION:**

No Particular measures required.

**SKIN CONTACT (Granual):**

Wash hands after use.

**SKIN CONTACT (Molten Polymer):**

Immediately flood affected area and adhering polymer with plenty of cold water. **DO NOT** attempt to remove molten or solidified material from the skin. Obtain medical attention.

**EYE CONTACT:**

Irrigate the eye with water or eye wash solution and seek medical attention. Immediately wash out with flowing water for at least 10 minutes, holding the eyelids apart. Obtain medical attention if irritation persists.

**INGESTION:**

No particular measures required.

**NOTES TO PHYSICIAN:**

Treat as symptomatic.

**5 FIRE FIGHTING MEASURES**

**SPECIAL FIRE FIGHTING PROCEDURES:**

Extinguish fires with water spray, alcohol-resistant foam, dry powder or carbon dioxide. On heating to decomposition, toxic gases may be produced, therefore breathing apparatus should be worn in cases of fire.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

On heating to total decomposition, the following may be produced: oxides of carbon, oxides of nitrogen, boron oxide, sodium oxide, oxide of phosphorous, potassium oxide, silica and aldehydes.



## 6 ACCIDENTAL RELEASE MEASURES

### SPILL CLEANUP METHODS:

The contaminated purging agent should be transferred to polythene containers and disposed of via a licensed waste disposal contractor. Wash residues away with plenty of water.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS:

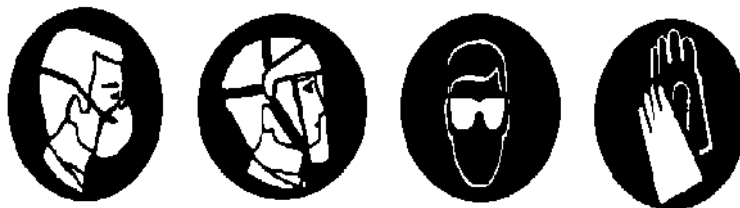
Avoid contact with the eyes.  
Avoid prolonged skin contact.  
Avoid inhalation of spray or mist from the working solution.  
Avoid contact of the product with strong acids.  
Always wear the appropriate personal protective equipment when using or handling this product in its molten form. Provide eye baths near where this product is used.  
Do not eat or drink while handling or using this product. Do not ingest the product.  
Wash hands after use.

### STORAGE PRECAUTIONS:

Store away from strong acids and foodstuffs.  
Store and transport the product in its original container kept in an upright position. Keep containers closed when not in use. Store between - 8<sup>0</sup>C and 40<sup>0</sup>C.

## 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION:

### PROTECTIVE EQUIPMENT:



#### VENTILATION:

General and/or local exhaust ventilation should be provided to keep operator exposure to the concentrated chemical and working solution below any recommended limits specified for the product ingredients. Under normal conditions of handling the product as supplied, respiratory protective equipment should not be required. The following comments may apply when no purge guard is available. Wear suitable respiratory protection if exposed to high levels of spray or mist. In most cases, a disposable mask suitable for non-toxic aqueous mists would be satisfactory.

#### PROTECTIVE GLOVES:

Wear heat impervious gloves complying with an approved standard. Suitable gloves would be those manufactured from Kevlar or natural leather.

#### EYE PROTECTION:

If no purge guard is available, wear eye/face protection complying with an approved standard (e.g. BS 2092 Chemical Grade). In most conditions, this would consist of goggles or face visor.

#### OTHER PROTECTION:

Good industrial hygiene procedures should be observed when handling Poly Clear HM EX. Protective clothing should be available where necessary.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOUR:	White powder.
APPEARANCE:	Damp powder and granules
ODOUR/TASTE	No significant or characteristic odour.
DENSITY	956 (kg/m <sup>3</sup> )
MELTING POINT	130 - 135 °C

### 10 STABILITY

#### PHYSICAL/CHEMICAL CHARACTERISTICS:

Under normal conditions of storage and use, this product will be stable.



**SHELF LIFE:**

The shelf life of this product is expected to be 2 years from the date of manufacture, provided it is kept in the original container, sealed when not in use and not exposed to extremes of temperature.

**HAZARDOUS POLYMERISATION:**

Under normal conditions of storage and use, hazardous polymerisation of this product will not occur.

**MATERIALS TO AVOID:**

This product will react with acidic materials. The reaction is unlikely to be vigorous or violent.

**CONDITIONS TO AVOID:**

No specific conditions to avoid known, other than those involving contact with the materials specified in the section "materials to avoid".

**HAZARDOUS DECOMPOSITION PRODUCTS:**

On heating to total decomposition, the following may be produced:  
Oxides of carbon, oxides of nitrogen, boron oxide, sodium oxide, oxides of phosphorus, potassium oxide, silica and aldehydes.

**11 TOXICOLOGICAL INFORMATION**

**HEALTH WARNINGS:**

In the molten condition this product may adhere to clothing or skin. The working solution may cause a defatting action to the skin.

**ACUTE AND CHRONIC HEALTH HAZARDS:**

No specific acute or chronic effects known.

**TOXICOLOGICAL INFORMATION:**

No specific toxicological test have been carried out on this product.



## 12 ECOLOGICAL INFORMATION

### DEGRADABILITY:

No specific biodegradability tests have been carried out on this product. The product contains a mixture of ingredients, some classified as readily biodegradable, some classified as non biodegradable and some for which no degradability information is available.

### ACUTE FISH TOXICITY:

No specific toxicity test have been carried out on this product. Incomplete information available on the toxicity of the products ingredients to aquatic organisms. However based on the information available for some of the ingredients, it is expected to be harmful to fish (LC 50(96hour)=10-100 mg/l). High concentration in the receiving waters will injure aquatic life by the effect on the pH.

### ENVIRONMENTAL HAZARDS:

Do not allow the product to enter local authority drains, waterways or sewers, or soil. This product should not be used for the manufacture of moulded products as the physical properties and chemical inertia have not been verified. This product contains phosphate. Low concentrations in the receiving waters may act as a plant nutrient or precipitate heavy metals. A typical oxygen demand for the product as supplied is as follows:  
Chemical oxygen demand (COD)=110 000 mg oxygen / litre.

## 13 DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS:

Bulk quantities of unused product and emptied containers should be disposed of via a licensed waste disposal contractor. Disposal of this product, solutions and by-products should at all times comply with the requirements of the Environmental Protection Act and its subsidiary regulations and any regional authority requirements.



## 14 TRANSPORT AND HANDLING INFORMATION

ROAD:

LABEL FOR CONVEYANCE:

No transport warning sign required.

SEA:

MARINE POLLUTANT:

No.

## 15 REGULATORY INFORMATION

Non Hazardous

UK REGULATORY REFERENCES:

Health and Safety at Work Act 1974,  
Control of Substances Hazardous to Health  
Regulations.  
Chemicals (Hazard Information and Packaging for  
Supply) Regulations.  
Environmental Protection Act.  
Environmental Protecting (Duty of Care)  
Regulations.  
Control of Pollution (Special Waste) Regulations.

## 16 OTHER INFORMATION

USER NOTES:

This Safety Data Sheet has been compiled for the product as supplied. It should be noted that this Safety Data Sheet only outlines the hazards of the product specified and not constitute a users work place risk assessment as required by other health and safety legislation.

For further safety-related information, please contact:

AQUAPURGE  
Unit 7 Craufurd Business Park  
Silverdale Road  
Hayes  
Middlesex UB3 3BN

Telephone: 020 8813 7990





RECOMMENDED USES AND RESTRICTIONS:

This product is intended to be used industrially/commercially as a chemical process for cleaning Plastic Injection Moulding Machinery. It should not be used for domestic purposes or for any other industrial/commercial use without the prior approval of Aquapurge.

INFORMATION SOURCES:

Raw material suppliers Safety Data Sheets.  
Health and Safety Executive Guidance Note EH40.  
Occupational Exposure Limits.  
Croner's Dangerous Chemicals Emergency First Aid Guide.

ISSUE DATE (dd-mm-yyyy):

27/07/2011





Unit 7, Craufurd Business Park, Silverdale Road, Hayes, Middlesex UB3 3BN. UK.



+44 (0) 20 8813 7990



+44 (0) 20 8848 8404



enquiries@aquapurge.com



**www.aquapurge.com**