

# SAFETY DATA SHEET

ExxonMobil Chemical\*

PRODUCT NAME: MOBIL HTA002

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SDS NUMBER: HDHE-K-00327

REVISION: 12 AUGUST 2000

## 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDENTIFICATION OF THE SUBSTANCE: MOBIL HTA002

This is a polymer

CHEMICAL FAMILY: POLYETHYLENES

### PRODUCT DESCRIPTION:

Clear to opaque, white to off-white pellets

### SUPPLIER:

EXXON CHEMICAL LTD.  
4600 PARKWAY  
P.O. BOX 122  
FAREHAM - HAMPSHIRE, PO15 7AP (ENGLAND)  
Telephone: 01489-884400  
Fax: 01489-884466

EMERGENCY TELEPHONE NUMBER: 02380-891558 (office hours)  
02380-891558 (outside office hours)

## 2 COMPOSITION/INFORMATION ON INGREDIENTS

HEALTH HAZARD COMPONENTS : NONE

## 3 HAZARDS IDENTIFICATION

### PHYSICAL AND CHEMICAL HAZARDS / FIRE AND EXPLOSION HAZARDS

- o Low Hazard. Material can form flammable mixtures or can burn only on heating to temperatures at or above the flash point.
- o Decomposes. Flammable/toxic gases will form upon decomposition. See Section 10 "Stability and Reactivity".
- o Toxic gases will form upon combustion. See Section 5 "FIRE-FIGHTING

\* ExxonMobil Chemical includes ExxonMobil Chemical Company and its stewarded affiliates.

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## MEASURES".

- o Dust. Material in form of dust is subject to explosions.
- o Static Discharge. Product can accumulate static charges which can cause an incendiary electrical discharge.

## 4 FIRST AID MEASURES

### INHALATION:

- o In case of adverse exposure to vapours and/or aerosols formed at elevated temperatures, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

### SKIN CONTACT:

- o First aid is normally not required.
- o In case of frequent or prolonged contact, flush with large amounts of water; use soap if available.
- o For hot product; immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. No attempt should be made to remove material from skin or to remove contaminated clothing, as the damaged flesh can be easily torn.

### EYE CONTACT:

- o This product is an inert solid. If in eye, remove as one would any foreign object.

### INGESTION:

- o First aid is normally not required.

## 5 FIRE-FIGHTING MEASURES

### FIRE-FIGHTING PROCEDURES:

- o Use water spray to cool fire exposed surfaces and to protect personnel. Block the supply to the fire.
- o Extinguish the fire by cooling with water spray.

### SPECIAL FIRE PRECAUTIONS:

- o Respiratory and eye protection required for fire fighting personnel.
- o See Sections 4 "First Aid Measures" and 10 "Stability and Reactivity"

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## HAZARDOUS COMBUSTION PRODUCTS:

Under Oxygen lean conditions, Carbon Monoxide (CO) and irritating smoke may be produced.

## 6 ACCIDENTAL RELEASE MEASURES

### LAND SPILL:

- o Spilled pellets present a slippage hazard on hard surfaces.
- o Sweep up spilled material and place in suitable containers for recycle or disposal.
- o Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- o See Sections 4 "First Aid Measures" and 10 "Stability and Reactivity"

### WATER SPILL:

- o Stop source if possible to do so without hazard. Advise authorities of possible floating substances, if material enters watercourses or sewers. Confine if possible.
- o Consult an expert on disposal of any recovered material and ensure conformity to local disposal regulations.
- o See Sections 4 "First Aid Measures" and 10 "Stability and Reactivity".

## 7 HANDLING AND STORAGE

STORAGE TEMPERATURE (Deg C) : Ambient

TRANSPORT TEMPERATURE (Deg C) : Ambient

LOADING/UNLOADING TEMPERATURE (Deg C) : Ambient

VISCOSITY (cSt) : Solid

STORAGE/TRANSPORT PRESSURE (kPa) : Atmospheric

ELECTROSTATIC ACCUMULATION HAZARD? Yes, use proper grounding procedure

### USUAL SHIPPING CONTAINERS:

Bulk trucks, bags, octatainers

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**MATERIALS AND COATINGS SUITABLE:** Pellets normally stored in silos of aluminum or plastic bags. Many materials are suitable.

**MATERIALS AND COATINGS UNSUITABLE:** Not Applicable

## STORAGE / HANDLING, GENERAL NOTES

- o Keep container closed. Handle and open containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated place away from incompatible materials.
- o Do NOT handle or store near an open flame, sources of heat, or sources of ignition. Protect material from direct sunlight.
- o Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### ENGINEERING CONTROL MEASURES / VENTILATION

Local exhaust ventilation of process equipment may be needed to control aerosol exposures to below the recommended threshold exposure limit. See personal protection recommendations.

The ACGIH recommends a TWA of 10 mg/m<sup>3</sup> for Inhalable particulate (total dust) and a TWA of 3 mg/m<sup>3</sup> for Respirable particulate (total dust) for particulates not otherwise classified (PNOC)

### PERSONAL PROTECTION:

- o Where contact may occur, wear safety glasses with side shields.
- o Where contact may occur with hot materials, wear thermal resistant gloves, arm protection and a face shield.
- o While processing this material, adequate ventilation is required. The use of local exhaust ventilation is recommended to control process emissions near the source.
- o Where concentrations in air may exceed the limits given in this section, and engineering, work practice or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation.

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**9 PHYSICAL AND CHEMICAL PROPERTIES**

These are indicative values only and should not be regarded as product specification.

PHYSICAL STATE: Solid

FORM/COLOUR: CLEAR TO OPAQUE, WHITE TO OFF-WHITE PELLETS

ODOUR: ODOURLESS

pH ( ) ( Deg C):

Not Applicable

MELTING TEMPERATURE RANGE:

between 110 and 130 DEG C

CRYSTALLIZATION TEMP RANGE:

DEG C

Not Applicable

AUTOIGNITION TEMPERATURE:

DEG C

Not Available

EXPLOSIVE LIMITS (in air):

g/m3

Not Available

VAPOUR PRESSURE ( Deg C):

kPa

BULK DENSITY:

between 0.500 and 1.000 g/cm3

SPECIFIC GRAVITY:

between 0.94 and 0.5

- 0.97 (PRODUCT)

VAPOUR DENSITY (101.3 kPa/air=1):

Not Applicable

SOLUBILITY IN WATER ( Deg C):

Wt%

Insoluble

IS MATERIAL HYGROSCOPIC:

No

VISCOSITY

cSt

Not Applicable

EVAPORATION RATE (n-Bu Acetate= 1):

Not Applicable

COEFF. OF THERMAL EXPANSION (Liq.):

DEG C

Not Applicable

MOLECULAR WEIGHT: between 5,000 and 250,000

**10 STABILITY AND REACTIVITY**

HAZARDOUS POLYMERISATION?

no

CONDITIONS TO AVOID POLYMERISATION:

Not Applicable

STABILITY:

Stable

CONDITIONS TO AVOID INSTABILITY:

Temperatures above 300 deg. C may cause resin degradation

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**MATERIALS AND CONDITIONS TO AVOID (INCOMPATIBILITY):**  
Strong oxidizing agents

**HAZARDOUS DECOMPOSITION PRODUCTS:**  
Carbon Dioxide (CO<sub>2</sub>), Carbon Monoxide (CO), Flammable Hydrocarbons and Fumes

## 11 TOXICOLOGICAL INFORMATION

### ACUTE:

#### INHALATION:

- o Negligible hazard at ambient temperature (-18 to 38 Deg C).
- o Vapours or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.
- o Dust may be irritating to eyes and respiratory tract.

#### SKIN CONTACT:

- o Negligible hazard at ambient temperatures (-18 to +38 degrees C) .
- o Exposure to hot material will cause thermal burns.

#### EYE CONTACT:

- o Particulates may scratch eye surfaces/cause mechanical irritation.

#### INGESTION:

- o Minimal toxicity.

Additional information is available on special request

## 12 ECOLOGICAL INFORMATION

## 13 DISPOSAL CONSIDERATIONS

The following advice only applies to the product as supplied.  
Combination with other materials may well indicate another route of

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disposal. If in doubt, contact local ExxonMobil Chemical Company supplier or local Authorities.

Empty drums should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.

Care should in any case be taken to ensure compliance with EC, national and local regulations.

Suitable routes of disposal of this product are incineration in appropriate incinerators with energy recovery, disposal in landfills or appropriate recycling methods.

## 14 TRANSPORT INFORMATION

LAND (railway/road, such as RID/ADR)

This product is not regulated for road/rail transport.

INLAND WATERWAYS (such as ADN/R)

This product is not regulated for inland waterways transport.

SEA (IMDG)

This product is not regulated for sea transport.

AIR (ICAO/IATA)

This product is not regulated for air transport.

## 15 REGULATORY INFORMATION

CLASSIFICATION AND LABELLING ACCORDING TO EEC DIRECTIVES

CLASSIFICATION/SYMBOL: Not Regulated

GOVERNING DIRECTIVE:

Dangerous Substances Directive 67/548/EC, as modified.

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## 16 OTHER INFORMATION

- Note 1
- o Always ensure adequate ventilation of the workshop.
  - o Local exhaust ventilation of process equipment may be needed.
  - o Avoid breathing vapors or fumes.

- Note 2
- o All handling equipment should be electrically grounded.

- Note 3
- o Incorrect operation of processing equipment can cause thermal degradation of the polymer and potential danger through inclusion of bubbles of air or other gases in material subsequently subjected to high temperatures. To avoid this the following typical melt temperatures are recommended:

Blown film extrusion	: 170-260 C	Wire & Cable Coating	: 205-270 C
Flat film extrusion	: 180-300 C	Extrusion Coating	: 280-340 C
Sheeting Extrusion	: 150-260 C	Injection Moulding	: 180-280 C
Profile Extrusion	: 150-220 C	Blow Moulding	: 150-250 C
Compounding	: 125-240 C	Rotational Moulding	: 210-340 C

- o To prevent degradation during :

Start-up :-Put heater of the major machine parts on first (normally the die heater), followed by the other heating elements to prevent plugging of unmolten material.

-Restrict the time the product is kept at elevated temperature without processing.

Shutdown :-Leave the barrel full and make sure that the hopper is empty.

-Cool down the equipment rapidly after shutdown.

- Note 4
- o Product may contain varying levels of additives such as slip, antiblocking agents, antioxidants and stabilizers.

- Note 5
- o Spilled pellets present a slippage hazard on hard surfaces. Practice good housekeeping.

- o Incorrect operation conditions can cause degradation of the product. Observe the maximum recommended processing temperatures for each specific product type. If necessary contact the Exxon Chemical Technical Service Engineer for details.
- o The product contains varying levels of additives such as slip and



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antiblocking agents, antioxidants and stabilizers.

- o This product may also contain some dust. Small particle size dust can form a potentially explosive cloud, if finely divided and dispersed in air at an appropriate concentration. Therefore:

- Avoid accumulation of dust
- Keep from sources of ignition
- Practice good housekeeping
- Operate handling and storage equipment leak-free

## REVISION SUMMARY:

Since 1 FEBRUARY 2000, this SDS has been revised in Section(s):

1, 6, 9, 10, 14

LAST LANGUAGE REVISION DATE: 12 AUGUST 2000

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