

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: **OCTIVA HA CRYSTAL MATT Lo-melt**
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MSDS NUMBER: 5 REVISION
 December 19, 2002

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDENTIFICATION OF THE PRODUCT : **OCTIVA HA CRYSTAL MATT LO-MELT**

CHEMICAL FAMILY : **Polyethylene terephthalate, Ethylene Vinyl Acetate Copolymer**

PRODUCT DESCRIPTION : **Polyester / EVA Laminate**

SUPPLIER : **GBC European Film Products
 Mercuriusstraat 9
 6468 ES Kerkrade
 Netherlands**

EMERGENCY TELEPHONE NUMBER : **0031-(0)45-535.76.76**

2 COMPOSITION/ INFORMATION ON INGREDIENT

Not applicable

3 HAZARD IDENTIFICATION

MATERIALS	FORMULA	% BY WEIGHT	CAS NUMBER	FORM	HUMAN CARCINOGEN	OSHA 8-HR PEL (15-min STEL mg / m ³)	OSHA 8-HR TWA (15-min STEL mg/m ³)	ACGIH 8-hr TLV mg/m ³
Ethylene Vinyl Acetate (EVA) Copolymer	b	41	24937-78-8	-	NO	-	-	-
Poly Ethylene	(C₂H₄)_n	34	9002-88-4	-	NO	-	-	-
Polyethylene Terephthalate	(C₁₀H₈O₄)_n	25	25038-59-9	-	NO	-	-	-
Inorganic Additives	-	<0.4	-	-	NO	-	-	-

Notes

a For dusts without an explicit OSHA PEL, a nuisance dust PEL applies: **15 mg/m³ total dust
 5mg/m³ respirable fraction of dust.**

b Formula : **CH₃(CH₂)_n (C₄H₆O₂)_n**

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4 FIRST AID MEASURES

- Eyes** If this material contacts the eyes, immediately wash the eyes with water for 5 minutes. Get medical attention if symptoms persist.
- Skin** If this material contacts the skin, brush off excess dust and wash the skin with soap and large amounts of water. Get medical attention if symptoms occur. Skin cuts and abrasion can be treated with standard first aid. If molten material contacts skin, cool rapidly with cool water. Do not attempt to remove molten material that clings to skin. Obtain medical attention for thermal burn.
- Inhalation** If a person breathes large amounts of this material as dust or is exposed to fumes from overheating, combustion or chemical reaction of this material, move the exposed person to fresh air at once. If breathing has stopped, perform mouth-to-mouth resuscitation. Keep the affected person warm and at rest. Get medical attention as soon as possible.
- Ingestion** Ingestion of significant amounts of this material is unlikely. If this material is swallowed, get medical attention immediately.

5 FIRE-FIGHTING MEASURE

LEL	UEL
NA	NA

EXTINGUISHING MEDIA

Water spray from fogging nozzle, carbon dioxide, foam or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES

(Note: Individuals should perform only those fire fighting procedures for which they have been trained.) Fire fighters should wear self contained breathing apparatus in the positive pressure mode with a full face piece when there is a possibility of exposure to smoke, fumes, or hazardous decomposition products. The application of high velocity water will spread the burning surface layer.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Dense smoke emitted when burned without sufficient oxygen. Polyester has a high heat value.

6 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

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No special precautions necessary for spills. Sweep or pick up material to prevent a slipping hazard. Wear gloves when handling hot material. Spilled material can be reused or discarded.

7 HANDLING AND STORAGE

PRECAUTION TO BE TAKEN IN HANDLING AND STORAGE

No special hazards anticipated under conditions normally encountered in storage and handling. Use household practices to prevent accumulations of dust and keep airborne dust concentrations at a minimum. Keep away from heat and source of ignition and avoid exposure to extreme heat and cold.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

PROTECTIVE GLOVES

Advisable to avoid cuts, skin abrasions or thermal burns.

9 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT	NA	DENSITY	991 kg/m ³ (H ₂ O=1000kg/m ³)
VAPOR PRESSURE	NA	SPECIFIC GRAVITY	124 g/m ²
VAPOR DENSITY	NA (Air = 1)	FLASH POINT	350°C
DECOMPOSITION TEMP.	> 230°C	FLAMMABILITY	Not easily flammable
AUTO IGNITION TEMP.	> 450°C	MELTING POINT	Approx. 160°C
EVAPORATION RATE	NA (Butyl Acetate = 1)		
SOLUBILITY IN WATER	Insoluble		

10 STABILITY AND REACTIVITY

STABILITY

Stable at room temperature.

INCOMPATIBILITY (MATERIALS TO AVOID)

Polyethylene Terephthalate is hydrolyzed by strong acids and base and by water at high temperatures. Polyethylene terephthalate above 194 °C may produce irritating fumes EVA may burn or react violently with fluorine-oxygen mixtures with more than 50% Fluorine.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS

Thermal decomposition products may include carbon, carbon monoxide, carbon dioxide, organic acids, (acetic acids), aldehyde (formaldehyde), acrolin, organic vapors or vinyl acetate monomer.



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HAZARDOUS POLYMERIZATION

Will not occur.

11 TOXICOLOGICAL INFORMATION

ROUTE(S) OF ENTRY

Inhalation : **Dust only**
Skin : **No**
Ingestion : **No**

HEALTH HAZARDS (ACUTE and CHRONIC)

No health hazard or toxicity information exists specifically for this material.

Data for major health components are given instead. For each component in this material, the percent by weight can be used as a rough guide to the component's likely significance.

The components of this material have a limited potential for release under normal of use, transportation and storage. Increased release may occur when the material is heated or subjected to processes which generate gasses, fumes or dusts.

The specific potential for release under user's condition of handling of this material should be evaluated by the user.

Heating polyester above 194 °C may produce fumes that are irritating to the eyes, nose and throat, resulting in reddening, tearing and itching of the eyes and soreness in the nose and throat together with coughing.

Inhalation : **Low hazard for usual handling and use. Film material may cause suffocation if placed over the face. Vapors are unlikely due to physical properties. Cutting may produce dusts. Single exposure to dust is not likely to be hazardous.**

Skin : **Essentially non irritating to skin. Mechanical injury only. A singly prolonged skin exposure is not likely to result in material being absorbed through skin in harmful amounts.**

Eyes : **No specific hazard known. However, any material that contacts the eye may cause eye irritation or corneal injury due to physical properties.**

Ingestion : **Ingestion of significant amounts of material is unlikely. Ingestion may cause choking if swallowed. Single dose oral toxicity is believed to be very low. Considered physiologically inert.**



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Unusual Chronic Toxicity : **None reported.**

CARCINOGENICITY

NTP : **No**
IARC Monographs : **No**
OSHA Regulated : **No**

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE : **None Reported**

12 ECOLOGICAL INFORMATION

Not applicable

13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Disposal of waste as normal refuse. Landfill preferred. Forced draft incineration is an alternative. This product must be disposed in accordance with applicable law of the country, state and local solid waste labeling , storage, shipping, and disposal labeled laws and regulations.

14 TRANSPORT INFORMATION

The outer surface of this product damages easily, there this product is used to enhance optical appearance it is advised to handle with care and do not expose to moisture, heat and abrasion.

15 REGULATORY INFORMATION

This product may contain the following toxic chemical(s) subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>PERCENT BY WEIGHT</u>
----	(none)	a

a See section II, Hazardous Ingredients/Identify Information, for percent weight.
This information must be included in all MSDSs that are copied and distributed for this material.



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16 OTHER INFORMATION

This Material Safety Data Sheet should be made available by the buyer to each of the buyer's plant workers.

REFERENCES

American Conference of Governmental Industrial Hygienists, Threshold Limit Values and Biological Exposure Indices for 1980-1992, Cincinnati, 1990

Bretherton, Handbook of Reactive Chemical Hazards, Butterworths, 1979.

Merck & Co., Inc., The Merck Index, 11th edition, Rahway, NJ, 1989.

Plunkett, E.R., Handbook of Industrial Toxicology, Chemical Publishing Co., New York, 1976.

Sax, N. Irving, Dangerous Properties of Industrial Materials, 5th edition, Van Nostrand, New York, 1979.

U.S. Department of Health and Human Services, NIOSH, Pocket Guide to Chemical Hazard, Pub. No. 85-114, Cincinnati, June 1990.

U.S. Department of Health and Human Services, NIOSH, Registry of Toxic Effects of Chemical Substances, April 1989.

U.S. Department of Labor, OSHA Regulations 29 CFR 1910.1000, January 19, 1989.

U.S. Environmental Protection Agency, Title III List of Lists, Pub. EPA 560/4-88-003, Washington, D.C.