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"BOLPHANE" SHRINK FILMS

SAFETY DATA SHEET

I. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"BOLPHANE" is a registered trademark of BOLLORE.

Identification of the product:

BOLPHANE® BX ; BE ; BXX ; BY ; BYO ; BHE ; BRN

Supplier

MANUFACTURER/DISTRIBUTOR
BOLLORE INC.
60 LOUISA VIENS DR. P.O. BOX 530
DAYVILLE CONNECTICUT 06241

PHONE NUMBERS

Product Information : 860-774-7431
Transport Emergency : 860-774-7431
Medical Emergency : 860-774-7431

II. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS	%
ETHYLENE -POLYPROPYLENE		30 to 45
POLYETHYLENE	9002-88-4	50 to 65
ADDITIVES		<5

III. HAZARDS IDENTIFICATION

SKIN: not hazardous
EYES: not hazardous

INHALATION: not a route of exposure
INGESTION: not a route of exposure
No components are hazardous as defined by 29 CFR 1910.1200

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA as a carcinogen.

IV. FIRST AID MEASURES

First Aid

INHALATION

No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary.

SKIN CONTACT

The compound is not likely to be hazardous by skin contact but cleaning the skin after use is advisable.

The predominant gases produced during normal hot wire cutting and shrinking operations are low molecular weight hydrocarbons, carbon dioxide, carbon monoxide, water, and hydrocarbon oxidation products including organic acids, aldehydes, and alcohols. The amount of each is low. BOLLORE does not believe concentrations of these gases present a hazardous work environment. Nevertheless, local ventilation is recommended.

In exceptional circumstances, in gross mis-operation of equipment or while the product is being disposed of, "BOLPHANE" shrink film may be exposed to temperatures above 617°F (325°C). In this case fumes irritating to the eyes, nose, and throat may be produced. Exposure to these fumes may result in redness, tearing, and itching of the eyes and soreness in the nose and throat together with coughing.

EYE CONTACT

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

INGESTION

First aid is normally not required.

V. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: not applicable

FLASH POINT METHOD: not applicable

AUTOIGNITION TEMPERATURE: not determined

UPPER FLAME LIMIT: not applicable

LOWER FLAME LIMIT: not applicable

BOLLORE INC SAFETY DATA SHEET

Page 2/5

September, 1st, 2008

EXTINGUISHING MEDIA

Use any standard agent (Water, Foam, Dry Chemical, CO2).

UNUSUAL FIRE AND EXPLOSION HAZARDS

Thermal decomposition vapors may be toxic.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information

SPECIAL FIRE FIGHTING PRECAUTION/INSTRUCTIONS:

As any fire, wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus and full protective clothing.

VI. ACCIDENTAL RELEASE MEASURES

Land spill

Sweep up spilled material and place in suitable container for recycle or disposal.

VII. HANDLING AND STORAGE

Handling (Physical Aspects)

Can accumulate high static electric charge during handling.
Static charges can cause explosions in solvent and dust laden atmospheres.

Storage

Store in a cool, dry place. Keep containers tightly closed to prevent moisture absorption and contamination.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

No special precaution during normal use of the product.

Use static controls. Static charges can build up and ignite dust or solvent laden atmospheres.

Ventilation requirements: provide adequate ventilation or local exhaust to remove fumes when performing high-temperature processing such as sealing or hot-wire cutting.

PERSONAL PROTECTIVE EQUIPMENT:

SKIN PROTECTION: not required

EYE PROTECTION: not required

RESPIRATION PROTECTION: not normally required. If smoke or fumes are generated during processing, use adequate ventilation or wear appropriate approved respiratory protection (not normally required).

OTHER PROTECTIVE: not applicable

Exposure Guidelines

Applicable Exposure Limits

OSHA PEL (Permissible exposure limit) : None Established

ACGIH TLV (Threshold Limit Value) : None Established

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Appearance, form	: clear translucent film
% Volatiles	: Negligible
Solubility in Water	: Negligible
Odor	: None
Melting point	: 212 - 280 °F
Specific gravity	: 0.91

X. STABILITY AND REACTIVITY

Chemical Stability: stable.

Incompatibility with Other Materials: none reasonably foreseeable.

Decomposition

Decomposition temperature: 617 F (325°C)

Hazardous gases or vapors can be released, including carbon monoxide, hydrocarbon oxidation products, including, organic acids, aldehydes, alcohols.

XI. TOXICOLOGICAL INFORMATION

Negligible hazard at ambient temperature for inhalation, skin contact, eye contact and ingestion.

XII. ECOLOGICAL INFORMATION

AQUATIC TOXICITY:

No information is available. Toxicity is expected to be low, based on insolubility in water.

XIII. DISPOSAL CONSIDERATIONS

Waste Disposal

Options for disposal are recycling, incineration with energy recovery, and landfill.

Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

XIV. TRANSPORTATION INFORMATION

Shipping Information

DOT (US department of transportation): Not regulated
IMDG (International maritime dangerous Goods): not regulated
TDG: Not regulated
IATA (International Air Traffic Association): not regulated.

XV. REGULATORY INFORMATION

The products are not considered hazardous under 29 CFR 1910.1200 (hazard Communication)

The products do not contain chemical substances which are listed in section 313 above the minimum concentrations.

Responsibility for MSDS: R. TEZENAS
BOLLORE
ODET-ERGUE GABERIC
29 000 QUIMPER cedex 9 (France)
Product Information: 00 (33) 02 98 66 72 00
Established: September, 1st, 2008

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End of MSDS