

# MATERIAL SAFETY DATA SHEET

● **PRODUCT :**

**Polyester Spunbond Nonwoven Fabric**

**December. 2011**

**Oxco, Incorporated.**

## 0. Introduction

The MSDS is a means of transferring essential hazard information (Including information on transport, handling, storage and emergency actions) from the supplier of a nonwovens product to the recipient of the product. As nonwovens are generally not hazardous, MSDS is not regally requested but must be considered as information.

The information contained in this Material Safety Data Sheet has been developed by the Company on the express request of its customer and to the best of its knowledge. Therefore, the Company does not assume any liability with respect to the correctness and/or completeness of the information provided by this Material Safety Data Sheet. The customer in particular shall not be released from his duty to check all safety relevant properties of the delivered nonwovens and to refer to the official texts for full information on the local obligations.

## 1. Identification of the product and the company

### 1.1 Identification of the product

#### **Polyester (Polyethylene Terephthalate) spunbonded nonwoven**

### 1.2 Company identification

Name : Oxco, Inc.

Address : 500 Gulf Drive Charlotte NC, 28208

(P) 704-333-7514 (F) 704-333-7517

## 2. Composition

Identification of the type of nonwoven product

Nonwoven Spunweb, thermal bonding

Nature of the fiber(s) PET

Chemical Name	Synonym	Cas No.	Concentration
1. Polyethylene terephthalate	PET	25038-59-9	84.5~85.0%
2. Co-Polyethylene terephthalate	Co-PET		14.5~14.9%
- Terephthalate	TPA	100-21-0	9.1~9.6%
- Ethylene Glycol	EG	107-21-1	3.4%
- Adipic Acid	AA	124-04-9	2.0%
3. Carbon black		1333-86-4	0.01~0.1

Chemicals (in relevant concentration) those are in the list of dangerous Substances: No

### 3. Hazards identification

Emergency Overview

No significant hazards.

Potential Health Effects: Eyes

No Health effect via this route of entry expected under anticipated use conditions.

Potential Health Effects: Skin

No Health effect via this route of entry expected under anticipated use conditions.

Potential Health Effects: Ingestion

No Health effect via this route of entry expected under anticipated use conditions.

Potential Health Effects: Inhalation

No Health effect via this route of entry expected under anticipated use conditions.

HMIS Ratings: Health: 0 Fire: 0 HMIS Reactivity 0

Hazard Scale: 0=minimal 1=Slight 2=Moderate 3=Serious 4=Severe \*=Chronic Hazard

### 4. First-aid measures

4.1 Inhalation: no specific measure to be taken

4.2 Skin contact: If burned by contact with molten material cool as quickly as possible.

Burns should be treated as thermal burns.

Product is a polymer of low toxicity; therefore, there is no agent need to remove it from skin because of concern about toxicity.

4.3 Eyes contact: no specific measure to be taken

4.4 Ingestion: no specific measure to be taken

### 5. Fire fighting measures

5.1 Suitable extinguishing media: regular dry chemical, carbon dioxide, water, regular foam

Large fires: use regular foam or flood with fine water spray

5.2 Fire fighting: move container from fire area if it can be done without risk.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

5.3 Extinguishing-media not to be used: None

5.4 Special exposure hazard: for flammable and toxic fumes as well as skin

contact with molten materials see also clause No. 10.

5.5 Special protective clothing for fire-fighter: None

5.6 NFPA Ratings: Health=0 Fire=0 Reactivity=0

Hazard Scale : 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

## 6. Accidental release measures

Safeguards (Personnel)

Note: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL)

Sections before proceeding with clean-up.

Accidental Release Measures

Polyester is not readily biodegradable, nor radioactivity. It contains no significant percentage of materials extractable in water so its effect on ground water in case of landfill should be Negligible. It is stable in all recommended use environments and requires no special spill Handling procedures.

## 7. Handling and storage

Handling (Personnel)

Avoid contact with eyes. Avoid contact with skin. Wash thoroughly after handling.

Handling (Physical Aspects)

Keep away from heat, sparks and flames.

Storage

Keep container in a cool place

## 8. Exposure controls / personal protection

Engineering Controls

Use only with adequate ventilation.

Personal Protective Equipment

Eye/Face: Safety Glasses

While no special controls or handling procedures are required. It is important that exposure to any inhalable material be minimized by the use of adequate ventilation, such as local Exhaust, effective containment, and personal cleanliness.

## 9. Physical and chemical properties

Physical state: solid

Appearance (the color of the product as supplied) : white

PH: not applicable

Odor: not applicable

Boiling point/boiling range: not applicable

Melting point/melting range: approx. 253-267 °C

Decomposition temperature: greater 300 °C

Flash point: not applicable

Flammability: not easily flammable

Explosive properties: not applicable

Oxidizing properties: not applicable

Vapor pressure: not applicable

Vapor density: not applicable

Relative density: not applicable

Solubility

- water solubility: Insoluble

- soluble: chloral hydrate, phenol, phenol/tetrachloroethane (1:1), nitrobenzenes, hot dimethyl sulfoxide, trifluoroacetic acid hot m-cresol, o-chlorophenol.

Coefficient of water/oil distribution : not available

Partition coefficient

- n-octanol/water : not applicable

Specific gravity : 1.37 ~ 1.38 (gr/cm<sup>3</sup>)

## 10. Stability and reactivity

Stable at normal temperature and pressure.

Condition to avoid

under thermal decomposition flammable and toxic fumes can be generated

Above 300°C may be released : toxic and flammable gases, carbon monoxide

The generation of cleavage and oxidation products is subject to fire conditions.

None burned residues and contaminated water after fire fighting should be disposed of in compliance with official regulations.

Molten material should not be allowed to be in contact with the skin to which it can adhere and can cause burns.

## 11. Toxicological information

No toxic reaction known under normal conditions

Note : Under decomposition conditions; toxic fumes and contaminated water, see clause No. 10

## 12. Ecological information

For transportation, storage, normal use, no toxicological effect known.

## 13. Disposal considerations

As non hazardous solid waste, depending on local registration, nonwovens can be disposed of through recycling incineration landfill

**14. Transport information**

No specific request

**15. Regulatory information**

None

**16. Other information**

None