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# TVTN16M1000

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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### 1.1 Product identifier

Trade name/designation :TVTN16M1000

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1 Relevant identified uses

-Industrial.

#### 1.2.2 Uses advised against

-Not available

### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier :MEREFSA SLU

Address :Avda. Segle XXI, 56. 08840 Viladecans. Barcelona. Spain

Telephone :+34 933 372 081

Email :merefsa@merefsa.com

### 1.4 Emergency telephone number

Telephone number : +34 933 372 081

## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

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### 2.1 Chemical nature:

PTFE coated glass fabric.

CAS-No.: 9002-84-0 (PTFE), 65997-17-3 (fibrous-glass)

EG\_Index-No: None

EINECS-No: None

UN-No.: None

R/S-Classes: None

Further Information:

The product is not a hazardous substance or a hazardous preparation according to the latest version of 67/548/EEC

## SECTION 3: POSSIBLE HAZARDS

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Critical hazards due to the material itself are not known. A potential health hazard is present if thermal decomposition products will be inhaled. The contamination of tobacco has to be avoided.

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## SECTION 4: FIRST AID MEASURES

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### 4.1 General advice:

No special measures necessary.

### 4.2 After inhalation:

After inhalation of thermal decomposition products the victim should be removed from the danger zone into fresh air and should be kept still and warm.

### 4.3 On skin contact:

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### 4.4 On contact with eyes:

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### 4.5 On ingestion:

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### 4.6 Note to physician:

Inhalation of effluent products from heated PTFE (or after smoking fluoropolymer-contaminated tobacco) may cause "polymer fume fever" a temporary flu-like illness with fever and chills of approximately 36 - 48 hours duration. After heavy exposition of the victim should be for 48 hours under medical inspection, because pulmonary oedema could be occurred with delay.

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## 5. FIRE FIGHTING MEASURES

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### 5.1 Suitable extinguishing media:

Water spray jet, foam, dry powder, carbon dioxide (CO<sub>2</sub>)

### 5.2 Not suitable extinguishing media:

Not applicable

### 5.3 Special hazards due to the substance/preparation or the combustion gases:

Low burning risk. Ignition only by high heat transfer. In the case of fire or thermal decomposition toxic and acid fumes could be released.

Hazardous combustion gases: Carbon monoxide (CO), hydrogen fluoride (HF), carbonyl fluoride, tetrafluoroethylene, hexafluoropropylene, perfluoroisobutylene.

### 5.4 Special protective equipment :

All fire fighting, rescue operations, salvage work and clearance should be done with a self contained breathing apparatus.

### 5.5 Further information:

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## 6. ACCIDENTAL RELEASE MEASURES

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### 6.1 Personal precautions:

No special measures necessary.

### 6.2 Environmental precautions:

No special measures necessary.

### 6.3 Methods for cleaning up:

Clean mechanically and dispose of according to regulations.

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## 7. HANDLING AND STORAGE

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### 7.1 Handling:

Precautions for safe handling:

Contact with external flames and hot surfaces should be avoided due to the formation of toxic and acid fumes.

No smoking during the handling and working with the material. Contamination of tobacco should be avoided. Hazard due to fluoropolymer fever.

Face and hands should be washed before eating, drinking and smoking. It should be avoided to contaminate any material which will be burned.

Hazards on processing

A hazard exists on inhaling the decomposition products of PTFE. Therefore evacuation of the combustion gases during thermal processing is necessary.

At temperatures above 400 °C acid and toxic fumes could be formed. The nature and amount of the components are depending on the actual conditions and temperatures.

The inhalation of the combustion or decomposition products has to be avoided. Therefore a temperature limitation should be installed at the machines to avoid overheating.

Precautions against fire and explosion:

Observe the general rules for fire prevention.

### 7.2 Storage:

Requirements for storage and containers:

No special requirements necessary.

Instructions for storage with other components:

Do not store together with combustible substances.

Further information for storage conditions:

Not applicable.

Storage class:

Not applicable

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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### 8.1 Engineering Controls :

N/A

### 8.2 Components with workplace control parameters:

N/A

### 8.3 Personal protective equipment:

Respiratory protection:

In general not necessary, except on thermal manufacturing, if no evacuation of the combustion gases or sufficient ventilation exist.

Hand protection:

Not necessary

Eye protection:

In general not necessary, except on thermal manufacturing, if no evacuation of the combustion gases or sufficient ventilation exist.

Body protection:

In general not necessary, except on thermal manufacturing, if no evacuation of the combustion gases or sufficient ventilation exist.

General safety and hygiene measures:

Not necessary

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Appearance:

Form: solid

Color: different

Odor: odorless

### 9.2 Safety parameters :

State transitions :

Boiling point :

Melting point : 320 - 345 °C

Softening point :

Flash point :

Ignition temperature: > 500 °C (according to PTFE)

Explosion limits : UEG

Vapor pressure : OEG

Density : 2,14 - 2,17 g/cm<sup>3</sup>

Solubility in water : not soluble

Viscosity :

Coefficient of distribution in Oktanol/Water:

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### 9.3 Other information:

#### 10. STABILITY AND REACTIVITY

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Conditions to be avoided:

Beginning of decomposition at 260 °C.

Significant and important decomposition above 400 °C. Formation of acid and toxic gases.

Hazardous decomposition products:

hydrogen fluoride (HF), carbonyl fluoride, tetrafluoroethylene, hexafluoropropylene, perfluoroisobutylene

Reactions to be avoided:

Reactions with metal powder above 370 °C.

#### 11. TOXICOLOGICAL INFORMATION

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##### 11.1 General Information:

According to our present knowledge PTFE is physiologically compatible.

On thermal processing at high temperatures (thermal decomposition) acid and toxic gases could be formed. The inhalation may cause "polymer fume fever" a temporary flu-like illness with fever and chills of approximately 36 - 48 hours duration. Smoking of PTFE contaminated tobacco could be one reason of polymer fume fever.

##### 11.2 Acute toxicity:

No data known.

Subacute and chronic toxicity:

A repeated exposition to the acid and toxic decomposition gases may cause pulmonary damage and Fluorose.

##### 11.3 Experiences from long term handling:

On long term handle with the product no damage to health was observed.

#### 12. ECOLOGICAL INFORMATION

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##### 12.1 Elimination Information:

The product is not readily biodegradable.

##### 12.2 Behavior in environmental Compartments:

No data known.

##### 12.3 Ecotoxic effects:

No effects

##### 12.4 Further ecological information:

On the present state of our knowledge no ecological problems are to be expected.

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**13. DISPOSAL CONSIDERATION**

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**13.1 Product:**

Recommendation: Can be disposed of with domestic waste in a refuse tip. Combustion should only be performed at temperatures above 800 °C and if a cleaning equipment exist for the exhausting gases. Observe local bye-laws.

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**14. TRANSPORT INFORMATION**

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**14.1 Land transport ADR/RID and GGVS/GGVE (Germany):**

GGVS / GGVE: - - -

ADR / RID: - - -

Name of material: - - -

General information: Not classified as hazardous under transport regulations.

**14.2 River transport:**

ADN / ADNR-class: - - -

Categorie: - - -

Name of material: - - -

General information: Not classified as hazardous under transport regulations.

**14.3 Sea transport:**

IMDG / GGVSee-class: - - -

EMS: - - - MFAG: - - -

Marine pollutant: - - -

Correct technical name: - - -

General information: Not classified as hazardous under transport regulations.

**14.4 Air transport:**

ICAO / IATA-class: - - -

Correct technical name: - - -

General information: Not classified as hazardous under transport regulations.

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**15. REGULATORY INFORMATION**

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**15.1 Labelling according to EC Directives**

General information: Not subject to labeling

**15.2 Other national regulations:**

On the present of our knowledge the product is not a hazardous substance according to the EEC Directives or national regulations.

Tobacco should be stored separate to avoid contamination with PTFE. Smoking of PTFE contaminated tobacco may cause "polymer fume fever".

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**16. OTHER INFORMATION**

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The above information describes exclusively the safety requirements of the product and is based on the present state of our knowledge. It does not represent a guarantee for certain properties of the product described in terms of the legal warranty regulations