

	<b>Material Safety Data Sheet</b> <b>TRIVOREX®</b>	Approved by : <b>J. BLU</b>	<b>BULLETIN</b>
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Established : 10Oct.2003	Reference : MSDSTRIVO	Updated : 31 Oct. 08	Update : 4

In accordance with NF ISO 11014-1  
And European Directive 1907/2006/CE\*

### 1. PRODUCT IDENTIFICATION

1.1. Commercial name:

**TRIVOREX®**

1.2. Product use:

**Absorbent and neutralizer for chemical spills**

1.3. Supplier and manufacturer:\*

**PREVOR**

Moulin de Verville

BP1

F-95760 VALMONDOIS - FRANCE

Telephone : +33(0)1 30347676

Fax : +33(0)1 30347670

fds@prevor.com

1.4. Emergency telephone number:\*

+33 (0)1 30347676 (business hours)

### 2. HAZARDS IDENTIFICATION\*

2.1. Main hazards:

Non hazardous mixture in accordance with D. 1999/45/CE.

2.2. Physical and chemical hazards:

No known risk.

This product is a non hazardous absorbent of chemical substances. During utilization, wear safety equipment appropriate for the chemical being absorbed. Allow for ventilation.

On strong oxidizers in closed containers, dilute with water to avoid any heat release.

Release of CO<sub>2</sub> during utilization on acids.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Preparation:

No

Name	CAS N°	% p/p
Absorbent polymer	Proprietary	10-30%
Neutralizing agents	Proprietary	70-90%

3.2. Impurities:

No hazardous impurities.

### 4. FIRST-AID MEASURES\*

4.1. Inhalation:

If necessary, blow nose in order to remove any particles from the respiratory tract; do not wet the powder (significant swelling).

4.2. Eye contact:

Primary washing with Diphoterine® or if Diphoterine® is not available, wash with copious amounts of water.

4.3. Skin contact:

No known danger.

4.4. Ingestion:

Not the principal exposure route. Trivorex® has been tested and found non-toxic. In case of adverse effects, consult a doctor.

4.5. Protection of emergency rescue workers:

In the case of formation of a dust cloud, wear a dust mask (see section 8).

Spill response protection when using Trivorex®:

Wear safety equipment appropriate for the type of chemical which has been spilled. In cases of contact with the eyes or skin, use Diphoterine® or if Diphoterine® is not available, wash with copious amounts of water.

### 5. FIRE-FIGHTING MEASURES\*

5.1. Suitable extinguishing media:

Water, spray carbon dioxide, dry powder, foam.

5.2. Unsuitable extinguishing media:

None.

5.3. Thermal decomposition products/

Carbon monoxide, carbon dioxide, nitrogen or carbon oxides,

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organic vapours.  
5.4. Special protective equipment for fire-fighters In case of fire, wear self-contained breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES\*

6.1. Individual protection: Avoid contact with the eye.  
Avoid inhalation of powder.  
6.2. Environmental protection: Avoid disposing of in sewers, rivers, soil.  
6.3 Clean up methods: If dust cloud forms, ventilate the premises. Recover all of the product.

#### 7. HANDLING AND STORAGE

7.1. Handling: Respect hygiene measures (no eating or drinking) when manipulating product. Avoid disposing of the product in the environment, even though the product has been proven to be non-toxic for the environment (see section 12). Avoid the formation of dust clouds in order to avoid inhalation.

Very slightly sensitive to electrostatic sparks (M.I.E>500mJ).

7.2. Storage:

Technical measures /Storage conditions:

Keep well closed in the original packaging.

Store in a dry, dark place.

Paper bags lined with polyethylene, bucket or polyethylene container.

Packaging material:

7.3. Using Trivorex® on a chemical spill:

Use in a well-ventilated area if necessary.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION\*

8.1. Exposure limit values:

Name	CAS N°	ELV
Absorbent polymer	Proprietary	None
Neutralizing agents	Proprietary	None

8.2. Exposure control:

Personal protective equipment:

Breathing protection:

Ventilation/Aeration of premises or P1 adapted mask if dust cloud forms.

Hand protection:

Protective gloves during prolonged or frequent handling.

Eye protection:

Safety glasses or goggles if dust clouds form.

Skin and body protection:

None.

Specific hygiene: measures:

Avoid contact with eyes.

Spill response protection when using Trivorex®:

Wear safety equipment appropriate for the type of chemical which has been spilled. Wear chemical protective boots in cases of large chemical spills.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES\*

Physicale state (20°C):

solid (fine granules) , orangy-white

Odor:

Slightly orangy

Odor detection threshold:

Non determined

melting / freezing point:

Non applicable

Boling point:

Non applicable

Flash point:

Non applicable

Flammability:

Non determined

Auto-ignition temperature:

Non determined

Lower/upper flammability limits:

Non determined

Apparent density:

0.775 g/cm<sup>3</sup>

pH:

7.1 (100g/L at 20°C)

Reference model: IBModel	established : 23 Feb. 2002	Modified:	Updated : 0
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\* Indicates data modified since the last update.



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EC<sub>50</sub> 24 h at 45.4%, acid residue  
 EC<sub>50</sub> 24h at 33.5%, basic residue  
 EC<sub>500</sub>.24 h at 17.8%, oxidiser residue  
 on *Selenastrum capricornutum* : (tests performed by SGS)  
 EC<sub>50</sub> 72 h at 11.2%, acid residue  
 EC<sub>50</sub> 72h at 16.7%, basic residue  
 EC<sub>50</sub>.72 h at 2.0%, oxidiser residue

These 3 residues do not present any known harmful effects on micro-organisms tested, according to "MSDS, Material Safety Data Sheets for hazardous chemicals", AFNOR editions.

The residue is the mixture of the absorbed chemical (rendered inert by Trivorex®) and Trivorex®.

acid residue: TRIVOREX® + hydrochloric acid

basic residue: TRIVOREX® + sodium hydroxide

oxidiser residue: TRIVOREX® + hydrogen peroxide

12.4 Biodegradability: Easily biodegradable  
(81.6% after 28 days, Test SGS)

### 13. DISPOSAL CONSIDERATIONS

Waste handling recommendations: Burn according to current regulations.

### 14. TRANSPORT INFORMATION

RID/ADR : non regulated

IMDG : non regulated

IATA : non regulated

Other regulations: non regulated

RTDM R/F : non regulated

### 15. REGULATORY INFORMATION\*

Classified as non hazardous in accordance with the regulation concerning labelling of hazardous mixtures 1999/45/CE.

Regulation reference: REACH Regulation 1907/2006/CE.

### 16. OTHER INFORMATION

Recommended use : Neutralizer and absorbent for accidental chemical spills.

Recommendations before use:

- 1- Store TRIVOREX® near to potential risk.
- 2- Read the operating instructions.
- 3- Aerate/Ventilate the premises if necessary.
- 4- Use TRIVOREX® as quickly as possible.

Instructions for use :

- 1- First sprinkle TRIVOREX® around and then over the spill.
- 2- Let the product take effect – neutralize /absorption-(add water if anhydrous product).
- 3- Collect the solidified residue.

This sheet complements the technical sheets but does not replace them. The information that is contained herein is based on the state of our knowledge related to the product concerned at the date of issue and is given in good faith. Moreover, the user's attention is drawn to the possible risks incurred by using the product for any other use than that for which it was intended.

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