



# **HEALTH & SAFETY PRODUCT DATA SHEET**

**Name :**  
**Range of ROBE Products**

**ROBE Lighting s.r.o**  
**Hazovice 2090**  
**756 61 Roznov pod Radhostem - CZECH Republic**

## 1 – IDENTIFICATION OF SUBSTANCE / PREPARATION & COMPANY

### 1.1 Identification of substance :

Name of the product :

**STANDARD FOG - SMOKE FLUIDS**

Using :

Fluid used for creating artificial smoke and fog which are used in application such as shows or professional training.

### 1.2 Identification of the supplier : **ROBE Lighting s.r.o**

**Hazovice 2090**

**756 61 Roznov pod Radhostem - CZECH Republic**

## 2 – COMPOSITION / INFORMATION ON THE COMPONENTS

Composition : The product is a mixture of mineral oil, glycol and osmized (de-ionized) water in various proportions.

CAS Number of the main chemicals : 112-27-6 & 111-46-6

ENECS Number of the main chemicals : 203-953-2 & 203-872-2

Number given by EDEXIM European Authorities.

## 3 – IDENTIFICATION OF THE DANGERS

The products contain no dangerous components classified in the EC directive on the dangerous products (67/548/CEE). Our products are straightly conforming to the International norms.

Under normal operating conditions, the products don't show any special danger.

By hazard :

Ingestion : Low toxicity.

Eye / Skin : The chemical component is neither an eye nor a skin irritant.

Inhalation : Acceptable limits of exposure in professional premises, confirm the very low toxicity and the low level that could result from several hours of occupational exposure.

## 4 – FIRST AID MEASURES

### 4.1 Inhalation :

- Remove from exposure and rest.
- Call a doctor if necessary.

### 4.2 Skin contact :

- Drench the skin with a lot of water.
- Call a doctor if irritation persists.

### 4.3 Eye contact :

- Irrigate thoroughly with water for ten minutes at least.
- Obtain medical attention if necessary.

### 4.4 Ingestion :

- Wash out mouth with water.
- Do not try to make the patient vomit, make him drink water.
- Call a doctor if necessary.

## 5 – FIRE FIGHTING MEASURES

### 5.1 Rule One :

Use appropriated tools to fight small fires. If necessary call the firemen.

### 5.2 Extinction ways :

Carbon dioxide, dry powder, stream of water in function of the type of fire.

### 5.3 Dangerous decomposition products :

The thermal decomposition may cause dangerous release of carbon oxides.

### 5.4 Appropriated dressing and breathing equipment against fire :

Use Isolated Breathing Apparatus and use clothes especially made for fire fighting.

## 6 – ACCIDENTAL RELEASE MEASURES

### 6.1 Safety precaution :

Wear gloves and protection glasses.

### 6.2 Precautions to protect environment :

Do not let the product spread on the ground, in the ground and under ground . Use sand or absorbent material.

### 6.3 Cleaning :

Wash the floor with a lot of water. Do not send water on the damaged packaging.

## 7 – HANDLING & STORAGE

- 7.1 Safe handling :
- Avoid prolonged skin contact.
  - Avoid contact with eyes.
  - Ensure good ventilation of area.
  - Avoid creating spray.
  - Do not breathe the undiluted vapor.
- 7.2 Storage :
- Store in original close container only.
  - Store at ambient temperature only.
  - Do not store next to food.

## 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION

- 8.1 Respiratory :
- Use Isolated Breathing Apparatus for organic vapor mists.
- 8.2 Hand :
- Wear PVC coated or rubber gloves.
- 8.3 Eye :
- Wear glasses or face shield.

## 9 – PHYSICAL & CHEMICAL PROPERTIES

- 9.1 Appearance : Liquid.
- 9.2 Color : Colorless and blue, red, yellow, green, orange.
- 9.3 Smell : Weak.
- 9.4. Flash point : > 124°C
- 9.5 Auto-ignition : 229°C
- 9.6 Specific density : (H<sub>2</sub>O = 1) > 1
- 9.7 Stream density (Air = 1) : < 3,7
- 9.8 Water solubility : Completely miscible.
- 9.9 pH : Neutral.
- 9.10 Exposure values - TWA – used glycol  
USA : 50 ppm (216 mg/m<sup>3</sup>) 8 hours.

## 10 – STABILITY AND REACTIVITY

- 10.1 Stability  
Product stable under normal conditions of use (temperature and pressure).
- 10.2 Conditions to avoid  
Elevated temperatures, heat, flames.
- 10.3 Materials to avoid
- Strong acids and bases
  - Oxidants.
  - There's no known reactivity with normal products

## 11 – TOXICOLOGICAL INFORMATION

- 11.1 Inhalation :
- Long exposition :  
An important concentration of vapor might cause adverse effects on the central nervous system.
  - Slight effects :  
May cause headache, or vomiting.
- 11.2 Contact with skin
- Long exposition :  
A regular and long contact with the pure product may cause irritation and make the skin dry.

### 11.3 Contact with the eyes

- May cause irritation.

### 11.4 High Toxicity

The product is neither an eye nor a skin irritant

- DL 50 (rats ) under 20 mg/kg
- DL 50 (mice) under 30 mg/kg

## 12 – ECOLOGICAL INFORMATION

### 12.1 Degradability :

The product is largely biodegradable

### 12.2 Eco-toxicity:

The product is not toxic to the aquatic organisms

Fish : LC 50 (96 hours) > 32 mg/liter

Daphnia LC 50 (24 hours) > 10 g/liter

Algae LC 50 (8 hours) of 1,7 mg/liter

## 13 – ELIMINATION CONSIDERATION

- Do not reject in the rivers or in the drippings.
- Use authorized waste disposal in your country for products and packages.

## 14 – TRANSPORT INFORMATION

- No special precautions for transport,
- No known laws, the user must be careful with the possible changes or adding in the official's texts.

## 15 – REGULATORY INFORMATIONS

### 15.1 Information on the label :

The symbol and phrases have been written in accordance with the rules on the dangerous substances preparations (88/379/CEE, 67/548/CEE, and addenda) 23<sup>rd</sup> and 24<sup>th</sup> adaptations : Non applicable for this product.

### 15.2 National Rules

User has to respect their national rules, especially to the COSHH, HSWA and MHSW.  
Please make sure you read them.

## 16 – OTHER INFORMATIONS

### 16.1 Advise for Training :

No special training is necessary to use the product in the appropriated generators.  
Only prepare the employees to a safety measures plan.

### 16.2 Major information sources used in this sheet :

- Toxicological files INRS
- American data OHS
- Folders INRS
- International and national rules for transport of dangerous materials.

### 16.3 Date of creation of this health and safety sheet :

November 1999. Updated January 2009.

The above information is based on the present state of our knowledge of the product at the time of publication of this data sheet. It is given in good faith. No warranty is implied with respect to the quality of the specification of the product.  
The user must check himself that the product is entirely suitable for his purpose.

### 16.4 This sheet is conform to the Directive 91/155/CEE and modifications