

HEALTH & SAFETY DATA SHEET

(In accordance with Regulation (EU) 2015/830)

Product Name : ROBE - FOG FLUIDS (V2016)

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TITLE 1 : Identification of the Substance / Preparation and Company

1.1. Identification of the preparation

Product form : Mixture
Product Name : ROBE STANDARD FOG - Code 1098 0012 - Can of 5L
ROBE PERFORMANCE FOG - Code 1098 0013 - Can of 5L
ROBE PREMIUM FOG - Code 1098 0014 - Can of 5L

1.2. Relevant identified uses of the substance or mixture and uses

1.2.1. Relevant identified uses

Use of the substance / mixture: Liquid formulation used to produce an artificial smoke used in the entertainment events, shows, clubs, theaters, training occupational safety drills. Professional use and general public use

1.2.2. Uses deprecated

No additional information available

1.3. Identification of the company

ROBE LIGHTING SRO
Hazovice 2090
Roznov pod Radhosem
Czech Republic

Phone: +420-571-751500 - Email : info@robe.cz

1.4. Emergency Telephone Number

| Country | Company | Emergency Number |
|---------|---------|-------------------|
| France | ORFILA | +33 1 45 42 59 59 |

TITLE 2 : Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Unclassified

Physicochemical harmful effects , for human health and the environment

To our knowledge, this product does not present any particular risk, subject to compliance with the general rules of industrial hygiene

2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Precautionary statements (CLP) : P101 - Keep the container or label at your disposal if medical advice is needed
P102 - Keep out of reach of children
P271 - Use only outdoors or in a well ventilated area
P270 - Do not eat, drink or smoke when using this product
P234 - Keep only in the original container

2.3. Other Hazards

No additional information available

TITLE 3 : Composition / information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

The main single component of this product is de-mineralised water. Other ingredients : see below

| Product | Product Identifier | % | Classification according to Regulation EC No 1272/2008 (CLP) |
|----------------------|--|---------|--|
| TRIETHYLENE GLYCOL | (CAS Number) 112-27-6 (CE Number) 203-953-2 (N° REACH) 01-2119438366-35 | 14 - 30 | Unclassified |
| MONOPROPYLENE GLYCOL | (CAS Number) 57-55-6 (CE Number) 200-338-0 (N° REACH) 01-2119456809-23 | 4-10 | Unclassified |

Full text of H-phrases: see section 16

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TITLE 4 : First Aid

4.1. First aid indications

| | |
|-------------------------------|--|
| First aid after inhalation : | Move the person into fresh air and keep him/her in a position comfortable for breathing. |
| First aid for skin contact: | Wash skin with plenty of water. |
| First aid after eye contact : | Flush eyes with water as a precaution. |
| First aid after ingestion: | Call a poison control center or doctor if you feel unwell. |

4.2. Main symptoms and effects, acute and delayed

No additional information available

4.3. Indication of immediate medical attention and special treatment needed

Symptomatic treatment.

TITLE 5 : Measures against fire

5.1. Extinguishing Media

| | |
|-----------------------------------|--|
| Appropriated Extinguishing Media: | Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing agents: | Direct jet water. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|---------------------------------|
| Hazardous decomposition products in case of fire : | Possible release of toxic fumes |
|--|---------------------------------|

5.3. Advice for firefighters

| | |
|-----------------------------|---|
| Protection in case of fire: | Do not work without suited protective equipment. Respiratory protection , Self-contained. Complete protection of the body |
|-----------------------------|---|

TITLE 6 : Measures Accidental Release

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non first-aiders

| | |
|-----------------------|----------------------|
| Emergency Procedures: | Ventilate spill area |
|-----------------------|----------------------|

6.1.2. For rescuers

| | |
|-----------------------|---|
| Protection Equipment: | Do not work without suited protective equipment. For more information, refer to Section 8: "Control of individual exposure-protection ". |
|-----------------------|---|

6.2. Precautions for environmental protection

Avoid release into the environment.

6.3. Methods and materials for containment and cleaning

| | |
|----------------------|--|
| Cleaning processes: | Absorb the spilled liquid in absorbent material. |
| Other informations : | Remove materials or solid residues in an authorized center |

6.4. Reference to other sections

For more information, see Section 13.

TITLE 7 : Handling and storage

7.1. Precautions for safe handling

| | |
|---|--|
| Precautions for handling without danger : | Ensure good ventilation at the workplace Wear personal protective equipment. |
| Hygiene measures: | Do not eat, drink or smoke when using this product Wash hands after handling. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|-----------------------|---|
| Storage conditions : | Store at temperatures above 0 ° C and below 50 ° C. Keep only in the original container. Store in a well ventilated area. Store away from light. |
| Storage temperature : | 0 - 50 °C |

7.3. Particular end use

No additional information available

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TITLE 8 : Exposure controls / personal protection

8.1. Control Parameters

No additional information available

8.2. Exposure controls

| | |
|------------------------------------|--|
| Appropriate engineering controls: | Ensure good ventilation at the workplace. |
| Hand protection : | Protective gloves |
| Eye protection: | Safety glasses |
| Skin and body protections: | Wear suitable protective clothing |
| Respiratory Protection : | In case of insufficient ventilation, wear suitable respiratory equipment |
| Control of environmental exposure: | Avoid release into the environment. |

TITLE 9 : Physical and chemical properties

9.1. Basic physical and chemical properties Information

| | |
|---|--|
| Physical state: | Liquid |
| Colour : | Colorless , yellow , red |
| Odour : | no smell |
| Odour threshold: | No data available |
| pH : | 7 - 8 |
| Relative evaporation rate (butylacetate = 1): | No data available |
| Fusion point: | Not applicable |
| Freezing point : | No data available |
| Boiling point : | 100 - 290 °C |
| Flash point : | > 175 °C |
| Auto ignition temperature : | 370 °C |
| Decomposition Temperature : | No data available |
| Flammability (solid, gas): | Not applicable |
| Vapor Pressure: | No data available |
| Relative vapor density at 20 ° C: | No data available |
| Relative density: | No data available |
| Density : | 1018 kg /m ³ at 20°C. |
| Solubility : | Soluble in water. Partially soluble in organic solvents by the presence of glycolic derivative |
| Log Pow : | No data available |
| Kinematic viscosity: | No data available |
| Dynamic viscosity: | No data available |
| Explosive properties: | No data available |
| Oxidising properties: | No data available |
| Explosion limits: | No data available |

9.2. Other informations

No additional information available

TITLE 10 : Stability and reactivity

10.1. Reactivity

The product is not reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.
Reacts violently with oxidants.
Reactions with strong acids.

10.4. Conditions to avoid

None under conditions of storage and handling recommendations (see section 7).

10.5. Incompatible materials

Strong acids. oxidizing agent.

10.6. Hazardous decomposition products

Hazardous decomposition products should not be generated under normal conditions of storage and use.
Thermal decomposition generates: Carbon monoxide. Carbon dioxide.

TITLE 11 : Toxicological informations

11.1. Information on toxicological effects

Acute toxicity: Unclassified

MONOPROPYLENE GLYCOL (57-55-6)

LD50 oral rat > 2000 mg / kg

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TRIETHYLENE GLYCOL (112-27-6)

| | |
|--|-----------------------------|
| LD50 oral rat | > 15 000 mg / kg |
| LD50 rat dermal | > 22 000 mg / kg |
| Skin corrosion / irritation: | Not classified pH: 7 - 8 |
| Serious eye damage / eye irritation: | Not classified pH: 7 - 8 |
| respiratory or skin sensitization : | Not classified |
| Germ cell mutagenicity : | Not classified |
| carcinogenicity : | Not classified |
| Reproductive toxicity: | Not classified |
| Specific toxicity for target organs (single exposure): | Not classified |
| Specific toxicity for target organs (repeated exposure): | Not classified |
| Aspiration hazard: | Not classified |

TITLE 12 : Ecological informations

12.1. Toxicity

Ecology - general: This product is not considered toxic to aquatic organisms and does not cause long-term adverse effects in the environment.

| MONOPROPYLENE GLYCOL (57-55-6) | |
|--------------------------------|----------------|
| LC50 fish 1 | > 500 mg/l 96h |

| TRIETHYLENE GLYCOL (112-27-6) | |
|-------------------------------|---|
| LC50 fish 1 | 10000 mg/l <i>Leuciscus idus</i> (Ide); 48h |
| LC50 fish 2 | 5000 mg/l 24h |
| ErC50 (algae) | 10000 mg/l <i>Daphnie</i> ; 24h |
| NOEC (acute) | 320 mg/l <i>Pseudomonas putida</i> ; 16h |

12.2. Persistence

| MONOPROPYLENE GLYCOL (57-55-6) | |
|--------------------------------|-----------------------------|
| Persistence and degradability: | readily biodegradable |
| Degradation : | > 70% Exposure time 28 days |

| TRIETHYLENE GLYCOL (112-27-6) | |
|--------------------------------|---------------------------|
| Persistence and degradability: | Not readily biodegradable |

12.3. Potential for bioaccumulation

| TRIETHYLENE GLYCOL (112-27-6) | |
|--------------------------------|------|
| Potential for bioaccumulation: | High |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB

No additional information available

12.6. Other adverse effects

Additional information: Avoid release into the environment

TITLE 13 : Considerations Disposal

13.1. Waste treatment methods

Waste treatment methods: Dispose of contents / container in accordance with the sorting instructions from approved collector.

TITLE 14 : Transport informations

In accordance with the requirements of ADR / RID / IMDG / IATA / ADN

14.1. ONU number

| | |
|-----------------|----------------|
| N° ONU (ADR) : | Not applicable |
| N° ONU (IMDG) : | Not applicable |
| N° ONU (IATA) : | Not applicable |
| N° ONU (ADN) : | Not applicable |
| N° ONU (RID) : | Not applicable |

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14.2. Official shipping transport name ONU

| | |
|-------------------------------|----------------|
| Proper Shipping Name (ADR) : | Not applicable |
| Proper Shipping Name (IMDG) : | Not applicable |
| Proper Shipping Name (IATA) : | Not applicable |
| Proper Shipping Name (ADN) : | Not applicable |
| Proper Shipping Name (RID) : | Not applicable |

14.3. Hazard class for transport

| | |
|-------------------------------------|----------------|
| ADR | |
| Hazard class for transport (ADR) : | Not applicable |
| IMDG | |
| Hazard class for transport (IMDG) : | Not applicable |
| IATA | |
| Hazard class for transport (IATA) : | Not applicable |
| ADN | |
| Hazard class for transport (ADN) : | Not applicable |
| RID | |
| Hazard class for transport (RID) : | Not applicable |

14.4. Packing Group

| | |
|------------------------|----------------|
| Packing Group (ADR) : | Not applicable |
| Packing Group (IMDG) : | Not applicable |
| Packing Group (IATA) : | Not applicable |
| Packing Group (ADN) : | Not applicable |
| Packing Group (RID) : | Not applicable |

14.5. Environmental hazards

| | |
|--------------------------------|-------------------------------------|
| Dangerous for the environment: | No |
| Marine pollutant: | No |
| Other informations : | No additional information available |

14.6. Special precautions for user

| | |
|----------------------|-------------------|
| - Overland transport | No data available |
| - Maritime transport | No data available |
| - Air transport | No data available |
| - Waterway transport | No data available |
| - Rail transport | No data available |

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

TITLE 15 : Regulatory information

15.1. Regulations / legislation for the substance or mixture Safety, health and environment

15.1.1. EU regulations

Contains no substance subject to restrictions according to Annex XVII of REACH
Contains no substances of the candidate list of REACH
Does not contain substances listed in Annex XIV of REACH

15.1.2. national regulations

No additional information available

15.2. Evaluation of chemical safety

No chemical safety assessment has been carried out

TITLE 16 : Other informations

| | |
|----------------------|-------|
| Other informations : | None. |
|----------------------|-------|