

VDL – smoke liquid

SECURITY DATA SHEET

1 – SUBSTANCE IDENTIFICATION / PREPARATION & COMPANY

1.1 Substance Identification

Product Name:	EUROSMOKE FOG & SMOKE LIQUID
Synonyms:	SMOKE FLUID LIGHT DENSITY SMOKE FLUID STANDARD & MEDIUM DENSITY SMOKE FLUID DENSE or HIGH DENSITY HAZER FLUID
Use:	Liquids used to create an artificial smoke or haze and used during performances or professional organizations.

2 – COMPOSITION / INFORMATION REGARDING THE CONTENT

Composition:	The product is a mixture of different high-quality glycols, white mineral oils and demineralised water in variable proportions.
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3 – DANGER IDENTIFICATION

The product does not contain any dangerous component mentioned in the EU directives on dangerous products (67/548/CEE). Our products are in accordance with applicable international standards.

When using appropriately, our products will not present any particular danger.

In case of:	<u>Ingestion</u> : weak toxicity. <u>Eyes / Skin</u> : the chemical components will not cause irritation of eyes or skin. <u>Inhalation</u> : the acceptable exposition limits in professional accommodations confirm the weak toxic level after a prolonged contact with the product during several hours.
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4 – FIRST AID

- 4.1 Inhalation:
 - Cease every contact with the product and rest.
 - Call a doctor if necessary.
- 4.2 Skin Contact:
 - Rinse the skin thoroughly with water.
 - Call a doctor if the irritation persists.
- 4.3 Eye Contact:
 - Rinse thoroughly with water during 10 minutes.
 - Call a doctor if necessary.
- 4.4 Ingestion:
 - Rinse the mouth with water.
 - Do not try to make the person vomit but make the person drink water.
 - Call a doctor if necessary.

5 – MEASURES TO FOLLOW IN CASE OF FIRE

- 5.1 Rule n° 1:
Use appropriate tools to fight the fire. Call for help if necessary.
- 5.2 Fire Extinction:
In proportion to the fire: carbon dioxide, dry powder or water sprays.
- 5.3 Dangerous Product Decomposition:
The thermal decomposition can cause dangerous carbon dioxide emanations.
- 5.4 Appropriate clothing and respirators when fighting fire:
Use insulated respiratory devices and appropriate clothing when fighting fire.

6 – PRECAUTIONARY MEASURES IN CASE OF FIRE

- 6.1 Safety Measures:
Wear safety gloves and goggles.
- 6.2 Environment Preserving Measures:
Do not allow the product to spread or to penetrate into the soil. Use sand or an absorbing product.
- 6.3 Cleaning:
Clean the soil thoroughly with water. Do not spray water on a damaged packaging.

7 – PRECAUTIONARY MEASURES IN CASE OF FIRE

- 7.1 Operating Measures
 - Avoid prolonged contact with the skin.
 - Avoid contact with eyes.
 - Make sure the room is well-ventilated.
 - Avoid spraying the product.
 - Do not inhale the pure liquid (non-diluted).

7.2 Storage

- Store the product in its original packaging.
- Store at ambient temperature.
- Do not store near food.

8 – PRECAUTIONARY MEASURES BEFORE USE & PROTECTION OF PERSONS

8.1 Respiration

Use an insulated respiratory device against organic vapours.

8.2 Hands

Make sure to wear PVC clothes and rubber gloves.

8.3 Eyes

Wear goggles or a mask.

9 – PHYSICAL & CHEMICAL CHARACTERISTICS

9.1 Appearance: Liquid.

9.2 Colour: clear, blue, red, yellow, green and orange.

9.3 Smell: slight.

9.4 Ignition Temperature: > 124°C

9.5 Auto-ignition Temperature: 229°C

9.6 Specific Density: (H₂O = 1) > 1

9.7 Vapour Density: (Air = 1) < 3.7

9.8 Solubility in Water: completely soluble

9.9 pH: Neutral

9.10 Exposure Value – TWA – when using glycol

USA: 50ppm (216mg/m³) 8 hours.

10 – STABILITY & REACTIVITY

10.1 Stability:

Stable product under regular using conditions (temperature and pressure).

10.2 Conditions to Avoid:

High temperatures, heat, fire.

10.3 Products to Avoid:

- Strong acids and bases.
- Oxidants.
- No known reactivity with regular products.

11 – INFORMATION CONCERNING PRODUCT TOXICITY

11.1 Inhalation:

- Prolonged Exposition:

A high vapour concentration can cause negative effects to the nervous system.

- Negligible Effects:

Can cause headaches or queasiness.

11.2 Contact with the skin:

- Prolonged Contact:

A prolonged and regular contact with the undiluted product can cause skin irritation and/or dehydration.

11.3 Contact with eyes:

- Can cause irritation.

11.4 High Toxicity:

The product is not irritating for eyes or skin.

- DL 50 (rats) less than 20mg/kg.
- DL 50 (mice) less than 30mg/kg.

12 – ENVIRONMENTAL INFORMATION

12.1 Biodegradability:

The product is perfectly biodegradable.

12.2 Eco-Toxicity:

The product is not toxic for the aquatic fauna.

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

Water flea: LC 50 (24 hours) > 10g/litre.

Algae: LC 50 (8 hours) of 1.7mg/litre

13 – BREAK-DOWN CONDITIONS

- Do not empty into rivers or pour down the drain.
- Use waste treatment centres qualified to treat the liquids and packaging of this product type.

14 – TRANSPORTATION CONDITIONS

- No particular transportation measures.
- No applicable laws, the user must notice possible modifications or new official texts..

15 – LEGAL INFORMATION

15.1 Label Information:

The symbols and information have been written in accordance with the laws regarding dangerous substances (88/379/CC, 67/548/CEE, and addenda) adaptations 23 and 24.

Not applicable to this product.

15.2 National Laws:

The user must obey all national applicable laws, particularly the laws relating to COSHH, HSWA and MHSW.
Please take note.

16 – COMPLEMENTARY INFORMATION

16.1 Tips on Training Course:

No training course is necessary for using the product with the appropriate machines.
Employees should nonetheless be prepared to execute safety plans.

16.2 Major Source of Information used in this Manual:

- Data on the toxicity of INRS products.
- American OHS data.
- INRS brochure.
- National and international laws on transportation of dangerous products.

16.3 Date of creation for this Medical and Safety Manual:

November 1999.

The information previously mentioned is our actual product knowledge at the moment of the publication of this data sheet. All information has been published in good faith. No guarantee applies with respect of the specificity qualities of the product. The user should verify that the product is appropriate for the intended use.

16.4 This manual is in accordance with the 91/155/CEE Directive and its modifications.