

HEALTH & SAFETY PRODUCT DATA SHEET

1 – IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

Identification of the preparations :

BEAM Z - SMOKE FLUID



Relevant identified uses of the substance

Liquid formulation used to produce an artificial smoke or fog or haze used in the entertainment events, shows, clubs, theaters, training occupational safety drills.

Product Code :

SMOKE FLUID STANDARD (160 643 - 160 582)
SMOKE FLUID HIGH DENSITY (160 644 - 160 583)
SMOKE FLUID SUPER DENSITY (160 586)

Packaging :

Can of 1L , 5L

Identification of the Company

TRONIOS BV
Bedrijvenpark Twente 415
7602KM - ALMELO - THE NETHERLANDS
Tel : + 31 6 227 98095
Web site : www.tronios.com

Telephone Emergency :

INRS / ORFILA : +33 (0)1.45.42.59.59 - Europeans emergency (112)

2 – HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture accordance directives 67/548/CEE, 1999/45/CE and adaptations.
This mixture doesn't present a physical danger. Refer to the recommendations regarding the other products present on the site.
This mixture does not present a health hazard.
This mixture does not present a danger to the environment. No damage to the environment are not known or expected under normal use.

2.2. Labels elements

The mixture is a product for professional use.
The mixture is used as "smoke."
Accordance with Directives 67/548/EEC, 1999/45/EC, adaptations.

Safety phrases :

S 2	Keep out of reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
S20/21	Do not eat, do not drink and not smoke while using
S 46	If swallowed, seek medical advice immediately and show this container or label.
S49	Keep only in original container.
S 51	Use only in well ventilated areas.

Do not use for any purpose other than that for which it is intended.

2.3. Other Hazards

Nothing

3 – COMPOSITION/INFORMATIONS ON INGREDIENTS

Chemical nature of the product: This product is a mixture

Liquid formulations of osmozed water and glycol derivatives. food coloring
No. CEE / main component: 2039532 (EINECS)

Hazardous substances present:

This preparation contains no hazardous substance in this category.

Other substances representing a hazard:

No known substance in this category present.

Substances present at a concentration below the minimum danger threshold:

Wording of R-and H in the table below: see section 16
No known substance in this category present.

Other substances with occupational exposure limits:

No known substance in this category present.

4 – FIRST AID IN CASE OF

Inhalation

Not applicable in liquid form, can be irritating to the respiratory form of smoke in large quantities and confined. Under this presentation, remove the subject from the contaminated area to breathe fresh air. Keep warm and at rest. Consult doctor in case of respiratory symptoms.

Contact with skin :

Not applicable

Contact with Eye :

Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical advice if irritation persists.

Ingestion :

Do not induce vomiting. If the person is conscious, rinse mouth and drink water. Call emergency relief nursing, EMS (15) and FIRE (18) Europeans emergency (112). Show them the label and safety data sheet. Apply the rules of first aid.

Important symptoms and effects, both acute and delayed:

No data are available

Indication of immediate medical attention and special treatment needed:

Symptomatic treatment: /

5 - FIGHTING MEASURES FIRE

Extinguishing Media:

Carbon dioxide, foam, powder, water spray.

Extinguishing media not be used for safety reasons:

Direct water jet.

Special Hazards

Toxic gases by pyrolysis (CO, CO₂). Prevent seepage into sewage system, storm water, natural environment. See section (6).

Special protective equipment for personnel responsible for the fight against fire

Breathing apparatus, protective equipment of the skin, eyes and mucous membranes.

6 – MEASURES IN CASE OF ACCIDENTAL RELEASE

Personal precautions:

Can make the ground slip (use : non-slip boots)

Precautions for environmental protection:

Prevent from spreading in sewers, storm drains or natural environment. Contain spill with earth or other noncombustible absorbent material as an absorbent mineral. Keep product away from drains, surface water, soils, ponds, storm water runoff.

Methods for Cleaning

Absorb and sweep up and store the waste in polyethylene drums with lids sealed identified before they are treated by an approved company. Finish by cleaning the floor with an aqueous detergent. Recover the wash water into a suitable container.

7 – HANDLING & STORAGE

Handling :

Safety precautions, see subsection (8). Do not mix with other products. Avoid contact with eyes, clothing. Do not breathe the fumes produced continuously by the product. Do not eat, drink and smoking during use. Carefully follow the instructions of the product for the formation of smoke.

Prevention: Use in well ventilated environment to avoid excessive concentration of fumes.

Storage :

Store in a ventilated area, away from light, in original packaging at temperatures above 0 °C and below 50 °C.

Specific uses: liquid used to produce an artificial smoke or fog used in the entertainment events, professional training, safety drills.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: Not relevant

Collective protection: Engineering measures: Use only in well ventilated

Personal protective equipment (PPE):

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|--------------------------|--|
| - Respiratory protection | Not required under normal conditions of use. |
| - Hand Protection : | Gloves suitable for the product: nitrile in prolonged exposure to the product. |
| - Eye Protection : | Not required under normal conditions of use. |
| - Skin Protection : | Not required under normal conditions of use. |

Hygiene Measures :

Do not eat, drink or smoke during use. Wash the body parts that may be in contact with the product, and hands.

Exposure control of the environment:

Prevent leakage of the product in drains or natural environment. Thoroughly clean all traces of product or waste to be treated as specified in paragraph (13).

9 – PHYSICAL AND CHEMICAL PROPERTIES

General informations :

Colorless, yellow, pink, blue without odor

Important informations regarding : health, safety and the environment:

pH :	7- 8
Point / boiling range:	from 100 to 290 °C
Fash point :	> to 175 °C
Auto - ignition temperature	370°
Decomposition temperature	No data
Oxidizing properties:	Not applicable.
Density at 20°C :	1018 kg / m3 at 20 °C
Solubility in organic solvents:	Partially soluble by the presence of glycolic derivative.
Water solubility :	soluble
N-octanol/water partition coefficient:	No data
Evaporation rate :	No data

10 – STABILITY AND RÉACTIVITY

Reactivity

No data are available.

Chemical stability

This mixture is stable according to the conditions of storage and handling recommendations in Section 7.

Possibility of hazardous reactions

Reacts violently with: oxidising agent. Reactions with strong acids.

Conditions to avoid

Avoid freezing , excessive heat

Incompatible materiels

Keep away from / to: - strong oxidizing agents, strong acids

Hazardous Decomposition Products

Thermal decomposition may release / form: carbon monoxide (CO), carbon dioxide (CO2)

11 – TOXICOLOGICAL INFORMATION

General Informations :

Acute toxicity

Inhalation : Not applicable for the liquid product, in terms of employment, the fumes in high concentration in containment and may be irritating to the respiratory tract.

Skin contact : Primary irritation: not irritating to the skin. Repeated or prolonged contact with skin may cause dermatitis and dryness.

Eye contact : eye irritation: not irritating to the product. In terms of employment, the fumes in high concentration in containment and may be irritating to eyes.

Ingestion :

DL50/rat oral (male)	> 2000 mg/kg
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Ingestion may cause nausea, vomiting and diarrhea.

Sensitization: No sensitizing

Long Term Effects: No data

CMR effects (carcinogenic, mutagenic, toxic for reproduction): /

12 – ECOLOGICAL INFORMATION

No data on the complete preparation is available.

Ecotoxicity: For the pure glycol derivative			
Fish toxicity			
CL50	69800	mg/l	
Species		Pimephales promelas	
Exposure time	96 h		
Source		CSR	
Daphnia toxicity			
CE50	>	10000	mg/l
Species		Daphnia magna	
Exposure time	48 h		
Source		CSR	
Toxicity to algae			
EC5	>	10000	mg/l
Species		Scenedesmus quadricauda	
Exposure time	8 days		
Source		CSR	
Bacteria toxicity			
EC10	>	1995	mg/l
Species		Activated sluge	
Exposure time	30 min		
Source		CS	

Mobility:

The product is water soluble and therefore highly mobile.

Persistence and degradability :

Biodegradable

Potential for bioaccumulation:

Low

Other adverse effects : /

13 – DISPOSAL CONSIDERATIONS

Waste, products unused :

Comply with national and local regulations. May be disposed of with household waste.

Store the waste identified, the unused products, and make them retrieve and process by an approved body

Contaminated packaging:

Completely empty the container. May be disposed of with household waste.

National and local provisions:

See the Environmental Code.

14 – TRANSPORT INFORMATION

Transport product in compliance with the provisions of the ADR for road, RID for rail, IMDG for sea and ICAO / IATA for air transport:

Product not classified as dangerous goods transport

15 – REGULATORY INFORMATION

Regulations / legislation specific to the substance or mixture of safety, health and environment

This safety data sheet conforms to the requirements of EC Regulation 1907/2006 as amended by Regulation 453/2010/CE.

Table of occupational illnesses, the Social Security Code: 84

Ranking section ICPE (France) = Not applicable

Evaluation of chemical safety: /

16 – OTHER INFORMATION

The working conditions of the user we are not known, the information contained in this safety data sheet are based on the state of our knowledge and on national and community regulations.

The mixture should not be used for other purposes than those specified under heading 1 without first obtaining written handling instructions.

It is always the responsibility of the user to take all necessary measures to meet the requirements of local laws and regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to this mixture and not as a guarantee of the properties of it.

Full text of risk phrases R, H, uh cited in section 3 for raw materials in its purest form: /

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