

HEALTH & SAFETY DATA SHEET

TITLE 1 : Identification of the Substance / Preparation and Company

1.1. Identification of the preparation

Product form : Mixture
Product Name : INVOLIGHT - HAZE FLUID - FL HL- 5L (CODE A-000000-01399)

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

1.2.1. Relevant identified uses

Use of the substance / mixture: Formulation used to produce an artificial hazer used in the entertainment events, shows, clubs, theaters,..
Professional use and general public use

1.2.2. Uses deprecated

No additional information available

1.3. Identification of the company

INVGROUP - DESTILAN DEUTSCHLAND GMBH
Senefelder - Ring 91
21465 - Reinbek - Germany
Tel : + 49 40-3030691-0-
Web site : <http://sound-and-light.invgroup.eu>

1.4. Emergency Telephone Number

Country	Organisation/Company	Address	Emergency Number	Comments
France	ORFILA		+33 1 45 42 59 59	

See page 6 List of Emergency Numbers - Europe

TITLE 2 : Hazards identification

2.1. Classification of the substance or mixture

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

Not Classified

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 - If medical advice is needed, keep at disposal the container or label
- 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

Product	Product Identifier	%	Classification according to Regulation EC No 1272/2008 (CLP)
(2,2'-(ETHYLENEDIOXY)DIETHANOL)	(CAS Number) 112-27-6 (CE Number) 203-953-2 (N° REACH) 01-2119438366-35	20 - 30	Unclassified

Full text of H-phrases: see section 16

TITLE 4 : First Aid

4.1. First aid indications

First aid after inhalation :	Remove the person to fresh air and keep 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 physician 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
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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
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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
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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 ".
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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

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
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 /m3 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

(2,2'-(ETHYLENEDIOXY)DIETHANOL) - 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.

(2,2'-(ETHYLENEDIOXY)DIETHANOL) - 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

(2,2'-(ETHYLENEDIOXY)DIETHANOL) - 112-27-6	
Persistence and degradability:	Not readily biodegradable

12.3. Potential for bioaccumulation

(2,2'-(ETHYLENEDIOXY)DIETHANOL) - 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

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.

Additional informations :

EMERGENCY NUMBERS - EUROPE

Austria	Poison Control Centre - Emergency helpline:	+43 1 406 43 43
Belgium	Centre Antipoisons / bruxelles	070 245 245
Bulgaria	National Toxicology Center,	+359 2 9154 233
Croatia	Poison Control Centre	+385 1 23-48-342.
Czech Republic	Toxikologické informační středisko	+420 224 919 293
Denmark	Bispibjerg Hospital - Giftlinjen ring	82 12 12 12
Estonia	Poisoning Information Centre	16 662
Finland	Poison Information Centre	09 471977
France	Orfila	+33 1 45 42 59 59
Germany	Giftnotruf Berlin, Emergency telephone:	+49 30 19240
Greece	Poison Information Centre	+30 2107793777
Hungary	Health Information - Toxicological Service	+36 80 20 11 99
Iceland	Landspítali - Poison Centre	543 2222
Ireland	Poisons information center of ireland	01 809 2166
Italy	Centro anti veleni	+39 02
Latvia	Valsts Toksikoloģijas centrs	+ 371 67042473 or 112
Lithuania	Nuodų Centras	+370 687 533 78
Luxembourg	Belgian Poison Center	+352 8002-5500.
Netherlands	Nationaal vergiftigingen informatie centrum	030 274 88 88
Norway	Giftinformasjonen	22 59 13 00
Portugal	CIAV	808 250 143
Romania	Centru de Control Otravă	+402 212 106 282
Slovakia	Narodné Toxikologické Informačné Centrum	+421 (0) 2 5477 4166
Spain	Urgencias toxicológicas	+34 91 562 04 20
Sweden	Giftinformationscentralen (Sverige)	08 33 12 31
United Kingdom	UK National Poisons Emergency number	+44 870 600 6266