Global Deluxe Smoke Fluid Aerosol
Safety Data Sheet

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	Global Deluxe Smoke Fluid Aerosol 400ml (For MiniMist and MicroFog)
Product number	LM1911/GS0017
Registration number (REACH)	Not relevant (mixture)
Unique formula identifier	J110-D0Y8-J007-04AF

1.2. Relevant identified uses of the substance or mixture

Identified Uses	Professional use.
Uses Advised Against	Applications which do not fulfill the above-mentioned purpose.

1.3. Details of the supplier of the safety data sheet

Green Star,
Steenpad 21H
4797 SG Willemstad
Tel: +31 168 473 194
Email: info@green-star.nl (competent person)
Web: https://www.green-star.nl

1.4. Emergency telephone Nos

+31 168 473 194
During office hours: Mon-Fri
09.00-17.00

Netherlands	Poison Centre National Vergiftigingen Informatie Centrum (UMC Utrecht) for emergency services only: Tel: +31 88 755 8000
Great Britain	National Poisons Information helpline: Tel: +44 (0)344 892 0111 NHS 111/NHS 24: Tel: 111
Republic of Ireland	National Poisons Information helpline Tel: +44 (0)1 809 2166

Section 2: Hazards identification

2.1. Classification of the substance or mixture classification

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

Section: 2.3
Hazard Class: Aerosols
Category: 1
Hazard Class & Category: Aerosol 1
Hazard statement: H222, H229

Additional information
Full text of H-phrases: see Section 16

2.2 Label elements

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

Hazard pictograms

GHS02

Signal word	Danger

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurized container: may burst if heated.

Precautionary statements:

Prevention

P210	Keep away from heat, hot surfaces, sparks, naked flames and other ignition sources. No smoking.
P211	Do not spray on a naked flame or other ignition source.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Additional labelling according to Directive 75/324/EEC relating to aerosol dispensers
Extremely flammable. Pressurized container: may burst if heated. Keep away from heat, hot surfaces, sparks, naked flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.1. Other hazards

There is no additional information.

Results of PBT and vPvB assessment
Does not contain any substances that are assessed to be PBT or vPvB ≥ 0.1 %

Endocrine disrupting properties
Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0.1 %

Section 3: Composition/information on ingredients

3.1. Substances

Not relevant (mixture)

3.2. Mixtures

This product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product, and hence require reporting in this section.
REACH information: in order to use the most up to date information we have incorporated data available via the public REACH dossier into the data sheet.

Substance name	CAS No.	INDEX No. & REACH No.	EC No.	Wt%	GHS Classification	Pictograms	Notes
Propane	*74-98-6*	*601-003-00-5 REACH Reg No 01-2119486944-21-xxxx*	*200-827-9*	*2.5-<5 %*	*Flam. Gas 1A H220 Press. Gas C H280*		*GHS-HC U(b)*
Isobutane (with <0.1% butadiene)	*75-28-5*	*601-004-00-0 REACH Reg No 01-2119485395-27-xxxx*	*200-857-2*	*2.5-<5 %*	*Flam. Gas 1A H220 Press. Gas C H280*		*C(a) GHS-HC U(b)*
Butane	*106-97-8*	*601-004-00-0 REACH Reg No 01-2119474691-32-xxxx*	*203-448-7*	*2.5-<5 %*	*Flam. Gas 1A H220 Press. Gas C H280*		*C GHS-HC U(b)*

Notes

C(a)	Mixture of isomers
C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case, the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
GHS-HC	Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI).
U(b)	The allocation to the group 'compressed gas' is based on the physical state in which the gas is packaged.

Additional information
All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases see Section 16.

Section 4: First aid measures

4.1. Description of first aid measures

General information — Do not leave affected person unattended. Remove away from the danger area. If unconscious, place in the recovery position. Never give anything by mouth. Remove all contaminated clothing. If in any doubt, or if symptoms persist, seek medical attention immediately.

After inhalation — Provide fresh air. In case of shortness of breath or if breathing has stopped, seek medical attention immediately and administer first aid. In case of respiratory tract irritation, consult a doctor.

After skin contact — Wash off immediately with plenty of soap and water. If a rash or skin irritation occurs, seek medical attention.

After eye contact — Rinse eye(s) thoroughly with plenty of water for at least 15 minutes, holding eyelids apart. Remove any contact lenses if this can be done safely. Continue to rinse. If eye irritation persists, consult an eye specialist as soon as possible.

After swallowing — Rinse mouth thoroughly with water if person is conscious. Never give anything by mouth to an unconscious person. If feeling unwell, call a doctor immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice, medical doctors should contact the poison centre.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents	Use water spray or dry chemical extinguishers. Firefighting measures should be appropriate to surroundings.
For safety reasons unsuitable extinguishing agents	Water jet

5.2. Special hazards arisings from the substance or mixture

Hazardous combustion products

During heating or in case of fire, hazardous gas/fumes/vapours may be produced.

5.3. Advice for firefighters

In case of fire and/or explosion, do not inhale fumes. Firefighting measures should be chosen in accordance with surroundings. Collect contaminated firewater separately and do not allow to enter drains or water courses. Fight fire from a safe distance and while taking usual precautions.

Special protective equipment for firefighters

Self-contained breathing apparatus (EN 133) and standard protective clothing.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Non-emergency personnel

Remove people to safety and keep away from and also upwind of spill/leak. Ventilate affected area.

Emergency personnel

Wear breathing apparatus if exposed to vapours/dust/spray/gases and protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Collect and dispose of contaminated firewater.

6.3 Methods and materials for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

Reference to other sections

See Section 5 for hazardous combustion products.
See Section 8 for personal protective equipment.
See Section 10 for incompatible materials.
See Section 13 for disposal considerations.

Section 7: Handling and storage

7.1. Precautions for safe handling

Recommended measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation and restrict use to well-ventilated areas. Ground/bond container and receiving equipment.

Advice on occupational hygiene

Wash hands after use. Take off all contaminated clothing and protective equipment immediately, and before entering eating areas. Do not breathe gas/fumes/vapours/spray. Avoid contact with the skin and the eyes. Keep away from food, drink and animal foodstuffs and do not place chemicals in containers that are usually used for food and drink. Smoking, eating and drinking should be prohibited in the application area.

7.2 Conditions for safe storage, including any incompatibilities

Management of associated risks

- Flammability hazards
  Keep away from heat, hot surfaces, sparks, naked flames and other ignition sources. Do not smoke. Do not spray on a naked flame or other ignition source. Protect from sunlight.

- Incompatible substances or mixtures
  Keep away from acids, alkalis and oxidizing substances.

Control of effects

- Protect from external exposure such as high temperatures, UV-radiation/sunlight, and frost.

Other considerations

- Store in a well-ventilated place. Keep the container tightly sealed.
- Packaging: only approved packaging (eg acc. to ADR) should be used.

7.2. Specific end use(s)

There is no additional information.

Section 8: Exposure controls/personal protection

8.1. Control parameters

National limit values
No information available.

Relevant DNELs/DMELs/PNECs and other threshold levels
No data available.

8.2. Exposure controls

Appropriate engineering controls
General ventilation.

Personal protective equipment

- Eye/face protection
  Use safety goggles with side protection (EN 166).
- Skin protection
  Protective clothing (EN 340 & EN 13688)
- Hand protection
  Wear suitable gloves, for example, chemical protection gloves tested according to EN 374. Suitability does not only depend on the material but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

- Type of material
  Nitrile rubber.

- Material thickness
  Use gloves with a minimum material thickness of ≥ 0.38mm

- Breakthrough time of the glove material
  Use gloves with a minimum breakthrough time of the glove material of >480 minutes (permeation level 6).

- Other protection measures
  Take recovery periods for skin regeneration. Use of preventative skin protection eg barrier creams or ointments, is recommended. Wash hands thoroughly after use. Provision of eyewash stations and safety showers in the workplace.

Respiratory protection
During spraying, wear suitable respiratory equipment. In poorly ventilated areas, wear respiratory protection. Full face mask/half mask/quarter mask (EN 136/140). Type: ABEK-P2 (combined filters against gases, vapours and particles, colour code: Brown/Grey/Yellow/Green/White).

Environmental exposure controls
Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid, gaseous (spray aerosol)
Colour	Colourless
Odour	Characteristic
Melting/freezing point	Not determined
Boiling point/initial boiling point/boiling range	-161.5 °C at 1.013 hPa calculated value referring to a component of the mixture
Flammability	Flammable aerosol in accordance with GHS criteria
Lower and upper explosion limit	LEL 2.7 vol % / UEL 19 vol % calculated value referring to a component of the mixture
Flash point	-88.6 °C at 1.013 hPa (fluid) calculated value
Auto-ignition temperature	370 °C (auto-ignition temperature (liquid and gases)) calculated value referring to a component of the mixture
Decomposition temperature	No data available
pH (value)	7.1
Kinematic viscosity	Not relevant
Solubility	Not determined
Partition coefficient n-octanol/water (log value)	No available information
Vapour pressure	20 Pa at 25 °C calculated value referring to a component of the mixture
Density	Not determined
Particle characteristics	Not relevant (aerosol)

Section 10: Stability and reactivity

10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat. Hints to prevent fire or explosion Protect from sunlight.

10.5 Incompatible materials

Oxidisers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

Section 11: Toxicological effects

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Test data for the complete mixture are not available.

Classification procedure
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity	Shall not be classified as acutely toxic.
Skin corrosion/irritation	Shall not be classified as corrosive/irritant to skin
Serious eye damage/eye irritation	Shall not be classified as seriously damaging to the eye or eye irritant
Respiratory or skin sensitisation	Shall not be classified as a respiratory or skin sensitiser
Germ cell mutagenicity	Shall not be classified as germ cell mutagenic
Carcinogenicity	Shall not be classified as carcinogenic
Reproductive toxicity	Shall not be classified as a reproductive toxicant
Specific target organ toxicity – single exposure	Shall not be classified as a specific target organ toxicant-(single exposure)
Specific target organ toxicity – repeated exposure	Shall not be classified as a specific target organ toxicant-(repeated exposure)
Aspiration hazard	Shall not be classified as presenting an aspiration hazard

11.2 Information on other hazards

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0.1 %

Other information

There is no additional information.

Section 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components of the mixture

Substance name	CAS No.	Endpoint	Value	Species	Exposure time
Propane	*74-98-6*	*LC50*	*49.9 mg/l*	*Fish*	*96 h*
Propane	*74-98-6*	*EC50*	*19.37 mg/l*	*Algae*	*96 h*
Isobutane (with < 0.1 % butadiene)	*75-28-5*	*LC50*	*49.9 mg/l*	*Fish*	*96 h*
Isobutane (with < 0.1 % butadiene)	*75-28-5*	*EC50*	*19.37 mg/*	*Algae*	*96 h*
Butane	*106-97-8*	*LC50*	*49.9 mg/l*	*Fish*	*96 h*
Butane	*106-97-8*	*EC50*	*19.37 mg/l*	*Algae*	*96 h*

12.2 Persistence and degradability

No available data.

12.3 Bioaccumulative potential

No available data.

12.4 Mobility in soil

No available data.

12.5 Results of PBT and vPvB assessment

Does not contain any substances that are assessed to be PBT or vPvB ≥ 0.1 %.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0.1 %.

12.7 Other adverse effects

No available data.

Section 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers / packaging

It is dangerous waste. Approved packaging only to be used (eg acc. to ADR). Completely empty

packaging may be recycled. Handle contaminated packaging in the same way as the substance itself.

Remarks
Please adhere to the relevant national or regional policies. Waste should be separated into categories manageable by local or national waste management facilities.

Section 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN	UN 1950
IMDG-Code	UN 1950
ICAO-TI	UN 1950

14.2 UN proper shipping name

ADR/RID/ADN	AEROSOLS flammable
IMDG-Code	AEROSOLS
ICAO-TI	Aerosols, flammable

14.3 Transport hazard class(es)

ADR/RID/ADN	2 (2.1)
IMDG-Code	2.1
ICAO-TI	2.1

14.4 Packing group Not assigned

14.5 Environmental hazards non-environmentally hazardous according to the dangerous goods regulations

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

No available data.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

Classification code	5F
Danger label(s)	2.1

Special provisions (SP)	190, 327, 344, 625
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D

International Maritime Dangerous Goods Code (IMDG) - additional information

Marine pollutant -
Danger label(s) 2.1

Special provisions (SP) 63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ) E0
Limited quantities (LQ) 1 L
EmS F-D, S-U
Stowage category -

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Danger label(s) 2.1

Special provisions (SP) A145, A167
Excepted quantities (EQ) E0
Limited quantities (LQ) 30 kg

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant provisions of the European Union (EU)
Restrictions according to REACH, Annex XVII

Name	Name acc. to inventory	Restriction	No
Butane	*Flammable / pyrophoric*	*R40*	*40*
Isobutane (with < 0.1 % butadiene)	*Flammable / pyrophoric*	*R40*	*40*
Propane	*Flammable / pyrophoric*	*R40*	*40*

Legend: R40

1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- 'whoopee' cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol

dispensers referred to above is marked visibly, legibly and indelibly with: 'For professional users only'.
3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC (2).
4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market, unless they conform to the requirements indicated.

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

Seveso Directive

2012/18/EU (Seveso III)				
No	**Dangerous substance / hazard categories**	**Qualifying quantity (tonnes) for the application of lower and upper-tier requirements**		**Notes**
P3a	*Flammable aerosols (containing Flam. Gas or Flam. Liq., cat. 1)*	*150*	*500*	*46)*

Notation 46)

'flammable' aerosols category 1 or 2, containing flammable gases category 1 or 2 or flammable liquids category 1
Note: qualifying quantity = net

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Water Framework Directive (WFD)

None of the ingredients are listed.

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (Netherlands) SZW-lijst CMR effects

None of the ingredients are listed.

List of Substances of Very High Concern, Rijksinstituut voor Volksgezondheid en Milieu (RIVM)

Name acc. to inventory	CAS No	Dust class for air emissions	Remarks	Threshold mass flow	Emission limit value
Butane	*106-97-8*	*MVP 2*	*rem-31 rem-75*	*2.5 g/uur*	*1 mg/Nm3*
Isobutane	*75-28-5*	*MVP 2*	*rem-31 rem-75*	*2.5 g/uur*	*1 mg/Nm3*

Legend

rem-31	Containing 0.1 per cent or more butadiene (203-450-8)
rem-75	This substance is not listed in appendix 12a of the Environmental Management Activities Regulations but falls under another substance, the substance class shown, limit mass flow rate

and emission limit value are those of the other substance and are also valid for this substance.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

Section 16: Other information

Abbreviations and acronyms

- ADN: Accord européen relatif au transport international des marchandises dangereuses par voies de navigation interiéures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
- ADR: Accord européen sur le transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- ADR/RID/ADN: Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways
- CAS: Chemical Abstracts Service (division of the American Chemical Society) that maintains the most comprehensive list of chemical substances
- CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
- CMR: Carcinogenic, Mutagenic or toxic for Reproduction
- DGR: Dangerous Goods Regulations (see IATA/DGR)
- DMEL: Derived Minimal Effect Level
- DNEL: Derived No-Effect Level
- EC50: Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (eg on growth) during a specified time interval
- EC No: The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- EmS: Emergency Schedule
- Flam. Gas: Flammable Gas
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals developed by the UN
- IATA: International Air Transport Association
- IATA/DGR: Dangerous Goods Regulation (DGR) for air transport (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical instructions for the safe transport of dangerous goods by air
- IMDG: International Maritime Code for Dangerous Goods
- IMDG-Code: International Maritime Code for Dangerous Goods
- Index No: The index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
- LC50: Lethal concentration, 50 %: The LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
- LEL: Lower explosion limit (LEL)
- NLP: No-Longer Polymer
- PBT: Persistent, Bioacummulative and Toxic
- PNEC: Predicted No-effect Concentration
- Press. Gas: Gas under pressure
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- RID: Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the international carriage of Dangerous goods by Rail)
- SVHC: Substance of Very High Concern

- UEL: Upper Explosion Limit
- vPvB: Very Persistent and Very Bioaccumulative

Further information

Key literature references and sources for data
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for air transport (IATA).

Classification procedure
Physical and chemical properties: the classification is based on tested mixture.
Health hazards, Environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in Sections 2 and 3)
H220 Extremely flammable gas
H222 Extremely flammable aerosol
H229 Pressurised container: may burst if heated
H280 Contains gas under pressure: may explode if heated

Other information
The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. It only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification, and does not constitute a legal relationship.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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If you have purchased the product for supply to a third party, it is your duty to take all necessary steps to ensure that any person handling and using the product is provided with the information in this sheet.