

GLITTER HAIR SPRAYS



COSMETIC PRODUCT DATA SHEET

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : GLITTER HAIR SPRAYS - (All Colours)

1.2. Relevant identified uses of the substance or mixture and uses advised against Temporary colouring of hair. Only use the product as directed on the aerosol.

1.3. Details of the supplier of the safety data sheet

Registered company name : Lakeland Cosmetics Limited.

Address :Units 1 & 2, Reedlands Road, Workington, Cumbria, CA14 3YF. United Kingdom.

Telephone : +44 (0) 1900 837942. sales@paintglow.co.uk

1.4. Emergency telephone number : +44 (0) 7908 251663

Hours of operation : Monday - Friday : 08:00 - 17:00; Friday

Other emergency numbers

United Kingdom : National Poisons Information Service : +44 (0)844 892 0111.

Ireland : Poisons Information Centre of Ireland : +353 1 809 2166

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the mixture

In compliance with EC Directive 75/324 and its amendments.

Aerosol, Category 1 (Aerosol 1, H222 - H229).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

Non-rinse-off cosmetic mixture. Mixture for aerosol application.

In compliance with EC Directive 75/324 and its amendments.

Hazard pictograms :



GHS02

Signal Word :

DANGER

Hazard statements :

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Precautionary statements - General :

P102 Keep out of reach of children.

Precautionary statements - Prevention :

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use.

Precautionary statements - Storage :

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) \geq 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

Intentional misuse of the preparation by concentrating and inhaling the vapours can be harmful or fatal.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

GLITTER HAIR SPRAYS

Identification	(EC) 1272/2008	Note	%
CAS: 106-97-8 EC: 203-448-7 REACH: 01-2119474691-32 BUTANE (< 0,1 % 1,3-BUTADIENE)	GHS02 Dgr Flam. Gas 1, H220 Press. Gas, H280	C [1] [7]	25 <= x % < 50
CAS: 64-17-5 EC: 200-578-6 REACH: 01-2119457610-43 ETHANOL	GHS07, GHS02 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319	[1]	25 <= x % < 50
CAS: 75-28-5 EC: 200-857-2 REACH: 01-2119485395-27 ISOBUTANE	GHS02 Dgr Flam. Gas 1, H220 Press. Gas, H280	C [1] [7]	10 <= x % < 25
CAS: 74-98-6 EC: 200-827-9 REACH: 01-2119486944-21 PROPANE	GHS02 Dgr Flam. Gas 1, H220 Press. Gas, H280	[1] [7]	10 <= x % < 25

Information on ingredients :

[7] Propellant gas

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation :

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

In the event of splashes or contact with eyes :

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : Get medical advice/attention.

In the event of splashes or contact with skin :

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

In the event of swallowing :

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Keep the person exposed at rest. Do not force vomiting.

Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

See section 11.

4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice (show the label if possible). If symptoms persist, always call a doctor.

SECTION 5 : FIREFIGHTING MEASURES

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

If the aerosols are exposed to a fire : keep containers cool by spraying with water from a protected position.

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO₂)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

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5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

If possible, stop the product stream. Spray from a protected position till the containers are cool. If possible, take the aerosols outside. Keep public at a distance.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area. Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Fire prevention :

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Do not spray on a naked flame or any incandescent material.

Do not pierce or burn, even after use.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected. Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke. Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not breathe in aerosols.

Avoid eye contact with this mixture.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

Keep away from all sources of ignition - do not smoke.

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Keep well away from all sources of ignition, heat and direct sunlight.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Storage in a dry, frost-free and well ventilated place.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8	1000 ppm				
64-17-5		1000 ppm		A3	
75-28-5	1000 ppm				
74-98-6	1000 ppm				

- Germany - AGW (BAuA - TRGS 900, 21/06/2010) :

CAS	VME :	VME :	Excess	Notes
106-97-8		1000 ppm 2400 mg/m ³		4(II)
64-17-5		500 ppm 960 mg/m ³		2(II)
75-28-5		1000 ppm 2400 mg/m ³		4(II)
74-98-6		1000 ppm 1800 mg/m ³		4(II)

- Belgium (Order of 19/05/2009, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8	1000 ppm				
64-17-5	1000 ppm 1907 mg/m ³				
75-28-5	1000 ppm				
74-98-6	1000 ppm				

- Denmark (2007) :

Stof	TWA	VSTEL	Loftvaerdi	Anm
106-97-8	500 ppm 1200 mg/m ³			
64-17-5	1000 ppm 1900 mg/m ³			
74-98-6	1000 ppm 1800 mg/m ³			

- France (INRS - ED984 :2012) :

CAS	VME-ppm :	VME-mg/m ³ :	VLE-ppm :	VLE-mg/m ³ :	Notes :	TMP No :
106-97-8	800	1900	-	-	-	-
64-17-5	1000	1900	5000	9500	-	84

- Finland (HTP-värden 2009) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8	800 ppm	1000 ppm			
64-17-5	1000 ppm 1900 mg/m ³	1300 ppm 2500 mg/m ³			
75-28-5	800 ppm	1000 ppm			

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74-98-6	800 ppm 1500 mg/m ₃	1100 ppm 2000 mg/m ₃		liite 4	
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- Spain (Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT), Mayo 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8	4,5 ppm 12 mg/m ₃				
64-17-5	1000 ppm 1910 mg/m ₃				
74-98-6	1000 ppm				

- Greece (90/1999) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8		1000 ppm 2350 mg/m ₃			
64-17-5		1000 ppm 1900 mg/m ₃			
74-98-6		1000 ppm 1800 mg/m ₃			

- Ireland (Code of practice for the safety, Health and Welfare at Work, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8	1000 ppm			Asphx	
64-17-5	1000 ppm 1900 mg/m ₃				

- Latvia (Regulation No. 325/2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8	300 mg/m ₃				
64-17-5	1000 mg/m ₃				

- Lithuania (HN 23 :2001) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5	500 ppm 1000 mg/m ₃		1000 ppm 1900 mg/m ₃		

- Norway (Veiledning om administrative normer for forurensning i arbeidsatmosfære, May 2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8	250 ppm 600 mg/m ₃				
64-17-5	500 ppm 950 mg/m ₃				
74-98-6	500 ppm 900 mg/m ₃				

- Netherlands / MAC-waarde (SER, 4 May 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8	600 ppm	-	-	-	-
64-17-5	260 mg/m ₃	1900 mg/m ₃		Huid	

- Poland (2014) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8	1900 mg/m ₃	3000 mg/m ₃			
64-17-5	1900 mg/m ₃				
74-98-6	1800 mg/m ₃				

- Czech Republic (Regulation No. 361/2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5	1000 mg/m ₃	3000 mg/m ₃			

- Slovakia (Regulation No. 300/2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :

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64-17-5	500 ppm 960 mg/m ₃	1920 mg/m ₃			
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- Slovenia (Uradni List, 15/06/2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8		1000 ppm 2400 mg/m ₃		KTV 4	
64-17-5		1000 ppm 1900 mg/m ₃		KTV 4	
75-28-5		1000 ppm 2400 mg/m ₃		KTV 4	
74-98-6		1000 ppm 1800 mg/m ₃		KTV 4	

- Switzerland (SUVA 2015) :

CAS	VME	VLE	Valeur plafond	Notations
106-97-8	800 ppm 1900 mg/m ₃	3200 ppm 7200 mg/m ₃		
64-17-5	500 ppm 960 mg/m ₃	1000 ppm 1920 mg/m ₃		SSC
75-28-5	800 ppm 1900 mg/m ₃	3200 ppm 7200 mg/m ₃		
74-98-6	1000 ppm 1800 mg/m ₃	4000 ppm 7200 mg/m ₃		

- Sweden (AFS 2007:2) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5	500 ppm 1000 mg/m ₃	1000 ppm 1900 mg/m ₃			

- Romania (Hotarâre 1218/2006) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5	1000 ppm 1900 mg/m ₃	5000 ppm 9500 mg/m ₃			
74-98-6	778 ppm 1400 mg/m ₃	1000 ppm 1800 mg/m ₃			

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8	600 ppm 1450 mg/m ₃	750 ppm 1810 mg/m ₃		Carc	
64-17-5	1000 ppm 1920 mg/m ₃				

- Estonie

Identification	Piirnorm	Luhiajalise kokkupuute piirnorm	Piirnormi lagi	Markused
106-97-8	800 ppm 1500 mg/m ₃			
64-17-5	500 ppm 1000 mg/m ₃	1000 ppm 1900 mg/m ₃		
75-28-5	800 ppm 1900 mg/m ₃			
74-98-6	1000 ppm 1800 mg/m ₃			

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- Hongrie

Megnevezes	AK-erteK	CK- erteK	MK- erteK	Megjegyzesek
106-97-8	2350 mg/m ³	9400 mg/m ³		
64-17-5	1900 mg/m ³	7600 mg/m ³		

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

ETHANOL (CAS: 64-17-5)

Final use:	Workers.
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	343 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL :	1900 mg of substance/m ³
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	950 mg of substance/m ³
Final use:	Consumers.
Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	87 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	206 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL :	950 mg of substance/m ³
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	114 mg of substance/m ³

Predicted no effect concentration (PNEC): ETHANOL

(CAS: 64-17-5)

Environmental compartment:	Soil.
PNEC :	0.63 mg/kg
Environmental compartment:	Fresh water.
PNEC :	0.96 mg/l
Environmental compartment:	Sea water.
PNEC :	0.79 mg/l
Environmental compartment:	Intermittent waste water.
PNEC :	2.75 mg/l
Environmental compartment:	Fresh water sediment.
PNEC :	3.6 mg/kg
Environmental compartment:	Marine sediment.
PNEC :	2.9 mg/kg
Environmental compartment:	Waste water treatment plant.
PNEC :	580 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

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Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours. Provide eyewash stations in facilities where the product is handled constantly. Do not spray in the direction of the eyes.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

- PVA (Polyvinyl alcohol)

- Butyl Rubber (Isobutylene-isoprene copolymer) Recommended properties :

- Impervious gloves in accordance with standard EN374

Not necessary at efficient use. Wash your hands after contact with skin.

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

Not necessary at efficient use. Wash skin that has been in contact with the product, with water and soap.

- Respiratory protection

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 : -

A1 (Brown)

Exposure controls linked to environmental protection

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state :

Fluid liquid.
Spray.

Color :

Various

Odour :

Perfume

Important health, safety and environmental information

pH :

Not relevant.

Boiling point/boiling range :

Not relevant.

Vapour pressure (50 °C) :

Not relevant.

Density :

0.636 g/ml

Water solubility :

Insoluble.

Melting point/melting range :

Not relevant.

Self-ignition temperature :

Not relevant.

Decomposition point/decomposition range :

Not relevant.

Chemical combustion heat :

Not specified.

Inflammation time :

Not specified.

Deflagration density :

Not specified.

Inflammation distance :

Not specified.

Flame height :

Not specified.

Flame duration :

Not specified.

Flash point :

< 0 °C

Flammability : 9.2. Other information

Extremely flammable

Water content :

< 0.3 % w/w

- carbon dioxide (CO₂)

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises. Avoid :

- heat
- flames and hot surfaces
- frost

Protect from sunlight and do not expose to temperatures exceeding 50 °C. Keep away from heat and sources of ignition. Storage in a dry, frostfree and well ventilated place.

10.5. Incompatible materials

No materials known by which a dangerous reaction can occur.

10.6. Hazardous decomposition products The thermal decomposition may release/form :

- carbon monoxide (CO)

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The product is stable. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days. Splashes in the eyes may cause irritation and reversible damage 11.1.1. Substances Acute toxicity :

PROPANE (CAS: 74-98-6)

Inhalation route (n/a) : LC50 > 10 mg/l

ISOBUTANE (CAS: 75-28-5)

Inhalation route (n/a) : LC50 > 10 mg/l

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

Inhalation route (n/a) : LC50 > 10 mg/l

ETHANOL (CAS: 64-17-5)

Oral route : LD50 = 10470 mg/kg
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 15800 mg/kg
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (n/a) : LC50 > 117 mg/l
Species : Rat
OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/skin
irritation Ethanol : Rabbit

: Irritant. :

Serious damage to eyes/eye irritation :

Ethanol : Causes serious eye irritation.

ETHANOL (CAS: 64-17-5)

Corneal haze : Average score = 1.1
Species : Rabbit
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Iritis : Average score = 0.44
Species : Rabbit
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Conjunctival redness : Average score = 2.1
Species : Rabbit
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

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Conjunctival oedema :	Average score = 1.3 Species : Rabbit OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Respiratory or skin sensitisation : Ethanol : Not sensitizing.	
Germ cell mutagenicity :	
PROPANE (CAS: 74-98-6)	No mutagenic effect.
ISOBUTANE (CAS: 75-28-5)	No mutagenic effect.
ETHANOL (CAS: 64-17-5)	No mutagenic effect.
Mutagenesis (in vitro) :	Negative. Species : Mammalian Cell Line OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)	No mutagenic effect.
Carcinogenicity :	
PROPANE (CAS: 74-98-6) Carcinogenicity Test :	Negative. No carcinogenic effect.
ISOBUTANE (CAS: 75-28-5) Carcinogenicity Test :	Negative. No carcinogenic effect.
ETHANOL (CAS: 64-17-5) Carcinogenicity Test :	Negative. No carcinogenic effect. Species : Rat OECD Guideline 451 (Carcinogenicity Studies)
BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8) Carcinogenicity Test :	Negative. No carcinogenic effect.
Reproductive toxicant :	
PROPANE (CAS: 74-98-6) No toxic effect for reproduction	
ISOBUTANE (CAS: 75-28-5) No toxic effect for reproduction	
ETHANOL (CAS: 64-17-5) No toxic effect for reproduction	
BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8) No toxic effect for reproduction	
Specific target organ systemic toxicity - single exposure :	
Ethanol : To human : Not classified for organ toxicity. For animals : No effects known.	
Specific target organ systemic toxicity - repeated exposure :	
Ethanol : To human : Not classified for organ toxicity. For animals : No effects known.	
ETHANOL (CAS: 64-17-5) Oral route :	C = 1730 mg/kg bodyweight/day Species : Rat Duration of exposure : 90 days OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Aspiration hazard :	
Ethanol : Not considered hazardous.	

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11.1.2. Mixture

No toxicological data available for the mixture.

SECTION 12 : ECOLOGICAL INFORMATION

Species : *Chlorella vulgaris*

12.1. Toxicity

12.1.1. Substances

ETHANOL (CAS: 64-17-5)

Fish toxicity :

LC50 = 13000 mg/l

Species : *Oncorhynchus mykiss*

Duration of exposure : 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity :

EC50 = 12340 mg/l

Species : *Daphnia magna*

Duration of exposure : 48 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity :

ECr50 = 275 mg/l

Duration of exposure : 72 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

Butane/Isobutane/Propane : Expected to be readily biodegradable.

12.2.1. Substances

PROPANE (CAS: 74-98-6)

Biodegradability :

Rapidly degradable.

ISOBUTANE (CAS: 75-28-5)

Biodegradability :

Rapidly degradable.

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

Biodegradability :

Rapidly degradable.

ETHANOL (CAS: 64-17-5)

Chemical oxygen demand :

DCO = 1.9 g/g

Five-day biochemical oxygen demand :

DBO5 = 1 g/g

Biodegradability :

Rapidly degradable.

DBO5/DCO = 0.53

12.3. Bioaccumulative potential

Butane/Isobutane/Propane : Not expected to be dangerous for the aquatic environment. Ethanol : Bioaccumulation not expected.

12.3.1. Substances

ETHANOL (CAS: 64-17-5)

Octanol/water partition coefficient :

log K_{ow} = -0.32

Bioaccumulation :

BCF = 1.93

12.4. Mobility in soil

Butane/Isobutane/Propane : If released into the environment, the product will rapidly disperse into the atmosphere where it will undergo photochemical degradation. Ethanol : Soluble in water.

12.5. Results of PBT and vPvB assessment

Ethanol : PBT/vPvB: No.

12.6. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

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Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2016).

14.1. UN number

1950

14.2. UN proper shipping name

UN1950=AEROSOLS, flammable

14.3. Transport hazard class(es)

- Classification :

2.1

ADR/RID Label : Limited Quantity : 2.1 is not applicable.

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	2	5F	-	2.1	-	1 L	190 327 344 625	E0	2	D
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
	2.1	See SP63	-	SP277	F-D,S-U	63 190 277 327 344 959	E0			
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	2.1	-	-	203	75 kg	203	150 kg	A145 A167 A802	E0	
	2.1	-	-	Y203	30 kg G	-	-	A145 A167 A802	E0	

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15 : REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture - Classification and labelling information included in section 2: The following regulations have been used:

- Directive 75/324/CEE
modified by directive
2013/10/UE

- Container information:
No data available.

- Particular provisions : No
data available.

15.2. Chemical safety assessment
No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this cosmetic product data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

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

Wording of the phrases mentioned in section 3 :

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated. H319 Causes serious eye irritation.

Abbreviations :

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods. IATA

: International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class). GHS02 : Flame PBT:

Persistent, bioaccumulable and toxic. vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.