

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.10.2023

Version number 2 (replaces version 1)

Revision: 11.10.2023

### \* SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Trade name:** Aerosol sprays, extremely flammable  
Generic Material Safety Data Sheet for these exemplary products (list not exhaustive):  
All deodorant sprays, e.g. Nivea, 8x4, Hidrofugal | all sunscreen sprays, e.g. Nivea Sun, Eucerin Sun | Nivea Hair Care: hairspray, hair mousse, dry shampoo | Nivea Pearl White Mousse, Whitening Oil Control Mousse Foam | footspray, e.g. Hidrofugal | Aquaphor Spray | Hansaplast, Curitas

**Article number:** e.g. (list not exhaustive):  
 09720 / 09725 / 48574 / 48593 / 48606 / 48623 / 69758 / 69759 / 75000 /  
 80461 / 80476 / 80497 / 82195 / 82196 / 82524 / 82525 / 82797 / 86079 /  
 86081 / 86801 / 86803 / 86804 / 86805 / 86808 / 86833 / 86855 / 86890 /  
 86912 / 86925 / 86931 / 86942 / 86943 / 86944 / 86945 / 86946 / 86947 /  
 86948 / 86949 / 88608 / 88609 / 88612 / 88613 / 88614 / 88968 / 89748 /  
 92474 / 96940

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Cosmetic or medicinal product

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier:** Beiersdorf AG, Beiersdorfstrasse 1 - 9, 20245 Hamburg, Germany  
 fon +49 40 4909 0

#### Further information obtainable from:

- Product Safety, Consumer Safety: Dr. Elisabeth Gerber,  
 Elisabeth.Gerber@Beiersdorf.com  
 - Corporate Safety: MSDS\_BDF@Beiersdorf.com

#### 1.4 Emergency telephone number:

+49 40 4909 6000

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

#### 2.2 Label elements

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

Classified and labelled according to EU Directive 75/324/ EEC (Aerosol Dispenser Directive).  
 Cosmetic and medicinal products are exempt from labelling requirements under the European CLP Regulation. The following elements are therefore not on the product with the exception of those required by the European Aerosol Directive.  
 Classified and labelled according to the CLP regulation.

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Hazard pictograms



GHS02 GHS07

Signal word

Danger

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Precautionary statements

H319 Causes serious eye irritation.  
 P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P103 Read carefully and follow all instructions.  
 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.  
 P280 Wear eye protection / face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Additional information:**

Buildup of explosive mixtures possible without sufficient ventilation.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

PBT: Some products contain decamethyl cyclopentasiloxane D5, dodecamethyl cyclohexasiloxane D6 and/or octamethyl cyclotetrasiloxane D4.

vPvB: Some products contain decamethyl cyclopentasiloxane D5, dodecamethyl cyclohexasiloxane D6 and/or octamethyl cyclotetrasiloxane D4.

\* **SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Description:**

Aerosols  
 Filling: Active agent, some products contain ethanol.  
 Possible propellants: Propane/n-butane/iso-butane or dimethyl ether or nitrogen.  
 The hazardous ingredients listed below are in this respect meant alternatively.  
 The actual ingredients are indicated on the can (INCI).

**Dangerous components:**

CAS: 64-17-5	ethanol	≥ 10 – < 100%
EINECS: 200-578-6	Flam. Liq. 2, H225; Eye Irrit. 2, H319	
Index number: 603-002-00-5		

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**Eucerin Sun | Nivea Hair Care: hairspray, hair mousse, dry shampoo | Nivea Pearl White**

**Mousse, Whitening Oil Control Mousse Foam | footspray, e.g. Hidrofugal | Aquaphor Spray |**

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		(Contd. of page 2)
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	≥ 0 – < 100%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0	isobutane ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	≥ 0 – < 100%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane, pure ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	≥ 0 – < 100%
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8	dimethyl ether ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	≥ 0 – < 100%

### SVHC

Some products contain decamethyl cyclopentasiloxane D5, dodecamethyl cyclohexasiloxane D6 and/or octamethyl cyclotetrasiloxane D4.

### Additional information:

For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### After inhalation:

Supply fresh air; consult doctor in case of complaints.

#### After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### After swallowing:

If symptoms persist consult doctor.

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

Dizziness

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

No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

### 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

### 5.3 Advice for firefighters

#### Protective equipment:

No special measures required.

#### Additional information

Cool endangered receptacles with water spray.

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Keep away from ignition sources.  
Ensure adequate ventilation

**6.2 Environmental precautions:**

Do not allow to enter sewers, surface or ground water in larger amounts or undiluted.

**6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

\* **SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Keep away from heat and direct sunlight.  
May only be used in accordance with the intended purpose.

**Information about fire - and explosion protection:**

Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage:**

Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility:

Observe national regulations on joint storage of hazardous substances.

Further information about storage conditions:

Keep container tightly sealed.

**7.3 Specific end use(s)**

No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

Propellants n-butane/isobutane/propane and dimethyl ether are meant alternatively. Depending on the product, it is one or the other.

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### 115-10-6 dimethyl ether

IOELV | Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

## 8.2 Exposure controls

### Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

Physical state	Aerosol
Colour:	Various colours
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Not determined.
Boiling point or initial boiling point and boiling range	Not determined.
Flammability	Extremely flammable liquefied gas.
Lower and upper explosion limit	
Lower:	1.5 Vol % (106-97-8 butane, pure)
Upper:	18.6 Vol % (115-10-6 dimethyl ether)
Flash point:	Not applicable, as aerosol.
Auto-ignition temperature:	235 °C (115-10-6 dimethyl ether)
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Solubility	
water:	Not determined.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	8,300 hPa (74-98-6 propane)
Vapour pressure at 50 °C:	280 hPa
Density and/or relative density	
Density:	Not determined.
Vapour density	Not determined.

### 9.2 Other information

#### Important information on protection of health and environment, and on safety.

Ignition temperature:

Product is not selfigniting.

Explosive properties:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity** No further relevant information available.  
**10.2 Chemical stability**  
**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.  
**10.3 Possibility of hazardous reactions** No dangerous reactions known.  
**10.4 Conditions to avoid** No further relevant information available.  
**10.5 Incompatible materials:** No further relevant information available.  
**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

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

**Acute toxicity** Based on available data, the classification criteria are not met.  
 LD/LC50 values relevant for classification: Propellants n-butane/isobutane/propane and dimethyl ether are meant alternatively. Depending on the product, it is one or the other.

<b>64-17-5 ethanol</b>		
Oral	LD50	7,060 mg/kg (rat)
Inhalative	LC50/4 h	20,000 mg/l (rat)
<b>106-97-8 butane, pure</b>		
Inhalative	LC50/4 h	658 mg/l (rat)
<b>115-10-6 dimethyl ether</b>		
Inhalative	LC50/4 h	308 mg/l (rat)

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.  
**Serious eye damage/irritation** Causes serious eye irritation.  
**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.  
**Germ cell mutagenicity** Based on available data, the classification criteria are not met.  
**Carcinogenicity** Based on available data, the classification criteria are not met.  
**Reproductive toxicity** Based on available data, the classification criteria are not met.  
**STOT-single exposure** Based on available data, the classification criteria are not met.  
**STOT-repeated exposure** Based on available data, the classification criteria are not met.  
**Aspiration hazard** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

**12.1 Toxicity**  
**Aquatic toxicity:** No further relevant information available.  
**12.2 Persistence and degradability** No further relevant information available.  
**12.3 Bioaccumulative potential** No further relevant information available.

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**12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment****PBT:** Some products contain decamethyl cyclopentasiloxane D5, dodecamethyl cyclohexasiloxane D6 and/or octamethyl cyclotetrasiloxane D4.**vPvB:** Some products contain decamethyl cyclopentasiloxane D5, dodecamethyl cyclohexasiloxane D6 and/or octamethyl cyclotetrasiloxane D4.**12.6 Other adverse effects****Additional ecological information:****General notes:** Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation**

Smaller quantities can be disposed of with household waste.

Only dispose of completely empty cans.

**European waste catalogue**

HP3	Flammable
HP4	Irritant - skin irritation and eye damage

**Uncleaned packaging:****Recommendation:** Disposal according to official regulations.**Recommended cleansing agents:** Water, if necessary together with cleansing agents.**\* SECTION 14: Transport information****14.1 UN number or ID number****ADR, IMDG, IATA**

UN1950

**14.2 UN proper shipping name****ADR, IMDG**

AEROSOLS

**IATA**

Aerosols, flammable

**14.3 Transport hazard class(es)****ADR**Class  
Label2 5F Gases.  
2.1

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**IMDG, IATA**



Class	2.1 Gases.
Label	2.1
<b>14.4 Packing group</b>	
<b>ADR, IMDG, IATA</b>	not regulated
<b>14.5 Environmental hazards:</b>	Not applicable.
<b>14.6 Special precautions for user</b>	Warning: Gases.
Hazard identification number (Kemler code):	-
EMS Number:	F-D,S-U
Stowage Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
<b>Transport/Additional information:</b>	Limited quantity (LQ) regulations according to ADR and IMDG can be applied for packages up to 30 kg gross weight. ID 8000 Consumer commodity for airtransport of finished goods can be applied for packages up to 30 kg gross weight.

ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D Tunnel code (E) applies to Limited Quantity transport units to be marked in accordance with 3.4.13 ADR.

IMDG	
Limited quantities (LQ)	1L

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Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

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**SECTION 15: Regulatory information**

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

**Directive 2012/18/EU**

Seveso category P3a FLAMMABLE AEROSOLS

Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

**REGULATION (EC) No 1907/2006**

**ANNEX XVII**

Y113 Product not subjected to the provisions of Annex XVII.  
Conditions of restriction: 3

**National regulations:**

Other regulations, limitations and prohibitive regulations NFPA 30B: Aerosol Level 3

**15.2 Chemical safety**

**assessment:**

Not applicable.  
A Chemical Safety Assessment has not been carried out.

\* **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Title IV (information in the supply chain) of EU Regulation 1907/2006 (REACH) does not apply to cosmetic and medicinal products in the finished state, intended for the final user. Safety data sheet is supplied on a voluntary basis. No automatic information about changes.

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

Classification according to Regulation (EC) No 1272/2008	
Aerosols, Section 2.3.1	On basis of test data
Serious eye damage/irritation	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

**Department issuing SDS:** Corp. Safety  
**Contact:** MSDS\_BDF@Beiersdorf.com  
**Date of previous version:** 14.07.2023

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**Version number of previous version:**

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**Abbreviations and acronyms:**

NFPA: National Fire Protection Association, USA

ADR: Accord relatif au transport international des marchandises dangereuses par route

(European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1A: Flammable gases – Category 1A

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

**\* Data altered compared to the previous version.**