

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.09.2024

Version number 5 (replaces version 4)

Revision: 27.09.2024

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 Extremely flammable aerosol.
 H229 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 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.

Precautionary statements

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

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(Contd. of page 2)		
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: CO₂, 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.

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.

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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 (spray cans).

Information about storage in one common storage facility:
Further information about storage conditions:

Observe national regulations on joint storage of hazardous substances.

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.

115-10-6 dimethyl ether

IOELV | Long-term value: 1920 mg/m³, 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

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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) Our aerosols contain different propellants, e.g. propane/ butane or dimethyl ether (DME). In a conservative approach we provide the lowest auto-ignition temperature which is that of DME (n-butane 365 °C).
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.

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.

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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.

64-17-5 ethanol

Oral	LD50	7,060 mg/kg (rat)
Inhalative	LC50/4 h	20,000 mg/l (rat)

106-97-8 butane, pure

Inhalative	LC50/4 h	658 mg/l (rat)
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115-10-6 dimethyl ether

Inhalative	LC50/4 h	308 mg/l (rat)
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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.

Endocrine disrupting properties

Mixture does not contain components considered to have endocrine disrupting properties according to the European REACH Regulation, Article 57(f), Regulations (EU) 2017/2100 or (EU) 2018/605 at levels of $\geq 0.1\%$.

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.

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 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

No further relevant information available.

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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

2 5F Gases.

Label

2.1

IMDG, IATA

Class

2.1 Gases.

Label

2.1

14.4 Packing group

ADR, IMDG, IATA

not regulated

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

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

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Segregation Code

litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
 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.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:

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)
 Excepted quantities (EQ)

1L
 Code: E0
 Not permitted as Excepted Quantity

Transport category

2
 To dangerous goods packed and labeled according to Limited Quantity regulations transport category 4 applies instead.

Tunnel restriction code

D
 To Limited Quantity transport units to be marked in accordance with 3.4.13 ADR tunnel code (E) applies instead.
 In accordance with 3.4.14 ADR tunnel code (-), i.e. no tunnel restrictions, applies to Limited Quantity transport units NOT to be marked in accordance with 3.4.13 ADR.

IMDG

Limited quantities (LQ)
 Excepted quantities (EQ)

1L
 Code: E0
 Not permitted as Excepted Quantity

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Directive 2012/18/EU**

Seveso category
 Qualifying quantity (tonnes) for the application of lower-tier requirements

P3a FLAMMABLE AEROSOLS

150 t

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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:

25.09.2024

**Version number of previous
version:**

4

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
: Aerosols – Category 3

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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.**

— EU —