



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

## OPN-Shoe Deodorant Spray

Version number: 2.0  
Revision: 2023-05-24

Date of compilation: 2018-02-20

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

- 1.1 Product identifier  
Trade name OPN-Shoe Deodorant Spray  
  
Unique formula identifier (UFI) 37KH-C5C9-U002-0GRR  
Other means of identification  
Article number 61956  
  
Tariff No 33072000
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
Relevant identified uses Industrial use  
Professional use  
Consumer use (private households)  
  
Sector of use Shoe deodorant  
Uses advised against Do not use for products which come into contact with foodstuffs
- 1.3 Details of the supplier of the safety data sheet  
OPN-CHEMIE GmbH  
In der Au 14  
57290 Neunkirchen  
  
www.opn-chemie.de  
Competent person responsible for the safety data sheet Barbara Angelika Gros-Petri  
e-mail (competent person) baerbel.petri@opn-chemie.de
- 1.4 Emergency telephone number  
Emergency information service Poison Information Center Freiburg +49(0)761/19240

### SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture  
Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Hazard class and category	Hazard state-ment
2.3	Aerosols	Aerosol 1	H222,H229
3.3	Serious eye damage/eye irritation	Eye Irrit. 2	H319
3.8D	Specific target organ toxicity - single ex-posure (narcotic effects, drowsiness)	STOT SE 3	H336

Remarks

For full text of abbreviations: see SECTION 16

- 2.2 Label elements  
Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

Pictograms

GHS02, GHS07



Hazard statements

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

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### Precautionary statements

P102 Keep out of reach of children.  
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.  
P261 Avoid breathing spray.  
P271 Use only outdoors or in a well-ventilated area.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.  
P501 Dispose of contents / container in accordance with national regulations of the disposal.

### Additional labelling requirements

Buildup of explosive mixtures possible without sufficient ventilation.

### Hazardous ingredients for labelling

Propan-2-ol

### 2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0,1\%$ .

## SECTION 3: Composition/information on ingredients









### 3.1 Substances

Not relevant (mixture).

### 3.2 Mixtures

Description of the mixture

Mixture of substances listed below with nonhazardous additions

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Butane	CAS No 106-97-8  EC No 203-448-7  REACH Reg. No 01-2119474691- 32-xxxx	50 – < 75	Flam. Gas 1A / H220 Press. Gas L / H280	 
Propane	CAS No 74-98-6  EC No 200-827-9  REACH Reg. No 01-2119486944- 21-xxxx	10 – < 25	Flam. Gas 1A / H220 Press. Gas C / H280	 
Propan-2-ol	CAS No 67-63-0  EC No 200-661-7  REACH Reg. No 01-2119457558- 25-xxxx	10 – < 25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	 
Isobutane	CAS No 75-28-5  EC No 200-857-2  REACH Reg. No 01-2119485395- 27-xxxx	1 – < 5	Flam. Gas 1A / H220 Press. Gas C / H280	 

### 3.3 Remarks

For full text of abbreviations: see SECTION 16

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

##### Following skin contact

Wash with plenty of soap and water.

##### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Narcotic effects.

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

none

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Water spray. BC-powder.

Unsuitable extinguishing media

Water jet.

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

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

Hazardous combustion products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

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

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material 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.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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### SECTION 7: Handling and storage

- 7.1 Precautions for safe handling  
Recommendations  
Measures to prevent fire as well as aerosol and dust generation  
Use local and general ventilation. Use only in well-ventilated areas.  
Advice on general occupational hygiene  
Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.
- 7.2 Conditions for safe storage, including any incompatibilities  
Managing of associated risks  
Storage class (LGK)  
2 B  
• Flammability hazards  
Do not spray on an open flame or other ignition source. Protect from sunlight.  
Consideration of other advice  
• Packaging compatibilities  
Only packagings which are approved (e.g. acc. to ADR) may be used.
- 7.3 Specific end use(s)  
No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters  
National limit values  
Occupational exposure limit values (Workplace Exposure Limits)  
this information is not available  
Relevant DNELs/DMELs/PNECs and other threshold levels  
Relevant PNECs of components of the mixture

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Propan-2-ol	67-63-0	PNEC	2,251 mg/l	Microorganisms	Sewage treatment plant (STP)	Short-term (single instance)
Propan-2-ol	67-63-0	PNEC	160 mg/kg	Aquatic organisms	Water	Short-term (single instance)

- 8.2 Exposure controls  
Appropriate engineering controls  
General ventilation.  
Individual protection measures (personal protective equipment)  
Eye/face protection  
Do not spray in eyes. If required use tight-fitting goggles.  
Skin protection  
Hand protection  
Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.  
Type of material  
NR: natural rubber, latex.  
Other protection measures  
Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.  
Respiratory protection  
Operate if possible out of doors or in a well-ventilated place. In case of inadequate ventilation wear respiratory protection. Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

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Environmental exposure controls

Use appropriate container to avoid environmental contamination. 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	Aerosol (Spray aerosol)
Colour	Colourless
Odour	Menthol
Initial boiling point and boiling range	Not applicable, as aerosol.*
Flammability (solid, gas)	flammable aerosol in accordance with GHS criteria
Explosive limits	2 vol% - 15 vol%
Flash point	Not applicable, as aerosol.*
Water solubility	Soluble
Vapour pressure	4 bar at 20 °C 7 bar at 50 °C
Density and/or relative density	
Density	0,6 g/ml at 20 °C

#### 9.2 Other information

Other safety characteristics

\* The finished mixture in an aerosol container is formed after addition of propellant. Several details are not measurable in an hermetic closed, pressurized container.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 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.

Physical stresses which might result in a hazardous situation and have to be avoided

High temperatures.

#### 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 information

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

Test data are not available for the complete mixture.

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

Causes serious eye irritation.

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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  
May cause drowsiness or dizziness.  
• 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

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.  
Ordinance on systems for handling water-polluting substances (Ordinance on facilities for handling substances hazardous to water) (AwSV):  
WGK (Germany) 1, slightly hazardous to water

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0,1\%$ .

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0,1\%$ .

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be re-cycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

15 01 04 Metallic packaging

15 01 10 Packaging containing residues of or contaminated by dangerous substances

16 05 04 Containing hazardous gases in pressure containers (including halons)

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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### 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
	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 acc. 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 The cargo is not intended to be carried in bulk.	

#### 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

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### 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)
- List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list
- none of the ingredients are listed
- Directive 75/324/EEC relating to aerosol dispensers
- Classification of the gas/aerosol                      Extremely flammable
- Labelling    Keep out of reach of children. Pressurized container: may burst if heated. Keep away from heat, hot surfaces, sparks, open 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.
- Additional information    -
- Industrial Emissions Directive (IED)
- VOC content    99.65 %
- Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)
- none of the ingredients are listed
- 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 on persistent organic pollutants (POP)
- None of the ingredients are listed.
- National regulations (Germany)
- Ordinance on systems for handling water-polluting substances (Ordinance on facilities for handling substances hazardous to water)(AwSV)
- Water hazard class    1 (slightly hazardous to water)
- Technical instructions on air quality control (Germany)
- | Number | Group of substances | Class | Conc.    | Mass flow | Mass concentration   | Notation |
|--------|---------------------|-------|----------|-----------|----------------------|----------|
| 5.2.5  | Organic substances  |       | ≥ 25 wt% | 0.5 kg/h  | 50 mg/m <sup>3</sup> | 3)       |
- Notation
- 3)      A total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m<sup>3</sup>, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)
- Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)
- Storage class (LGK)    2 B (Aerosol dispensers and lighters)
- 15.2 Chemical safety assessment
- Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

- Indication of changes (revised safety data sheet)
- Alignment to regulation. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU
- Restructuring: section 9, section 14  
(acc. to: Insertion UFI-Nummer: 37KH-C5C9-U002-0GRR)
- Abbreviations and acronyms
- ADN                      Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways).
- ADR                      Accord relatif au transport international des marchandises dangereuses par route (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 (ADR/RID/ADN).
- CAS                      Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances).
- CLP                      Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
- DGR                      Dangerous Goods Regulations (see IATA/DGR).
- DMEL                      Derived Minimal Effect Level.
- DNEL                      Derived No-Effect Level.
- 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.



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ELINCS	European List of Notified Chemical Substances.
EmS	Emergency Schedule.
Eye Dam.	Seriously damaging to the eye.
Eye Irrit.	Irritant to the eye.
Flam. Gas	Flammable gas.
Flam. Liq.	Flammable liquid.
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations.
IATA	International Air Transport Association.
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA).
ICAO	International Civil Aviation Organization.
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air.
IMDG	International Maritime Dangerous Goods Code.
IMDG-Code	International Maritime Dangerous Goods Code.
LGK	Lagerklasse (storage class according to TRGS 510, Germany).
NLP	No-Longer Polymer.
PBT	Persistent, Bioaccumulative 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).
STOT SE	Specific target organ toxicity - single exposure.
SVHC	Substance of Very High Concern.
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).
VOC	Volatile Organic Compounds.
VPvB	Very Persistent and very Bioaccumulative.

### 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 the air transport (IATA).

### Classification procedure

Physical and chemical properties. The classification is based on tested mixture.  
Health 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 section 2 and 3)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.