



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.08.2019

Version number 37

Revision: 29.08.2019

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

- **1.1 Product identifier**
- **Trade name:** OPN-Compressed Air Spray flammable
- **Article number:** 64503
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Relevant identified uses** industrial use, professional use
- **Application of the substance / the mixture** Surface active agent
- **Uses advised against:**  
consumer use (private households)  
Do not use for products that are intended for contact with food - exclude food contact.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
OPN-CHEMIE OTTO PETRI GMBH  
In der Au 14  
D-57290 Neunkirchen/Germany  
Tel.: +49 (0) 2735 / 7725-0 Fax: +49 (0) 2735 / 7725-90  
E-Mail: info@opn-chemie.de Web: www.opn-chemie.de
- **Further information obtainable from:**  
Safety data sheets Mrs. Barbara Angelika Gros-Petri  
Tel.: +49 (0) 2735 / 7725-20 E-Mail: baerbel.petri@opn-chemie.de
- **1.4 24 hours Emergency telephone number:**  
Vergiftungs-Informationen-Zentrale Freiburg +49 (0) 761 / 192 40

## 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.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02

- **Signal word** Danger
- **Hazard statements**  
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
- **Precautionary statements**  
P101 If medical advice is needed, have product container or label at hand.  
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.  
P260 Do not breathe vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
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 information:**  
Buildup of explosive mixtures possible without sufficient ventilation.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

#### · Dangerous components:

CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	50-<100%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-xxxx	propane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	25-<50%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	butane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	10-<20%

· **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.

Take affected persons into fresh air and keep quiet.

##### · After skin contact:

Seek medical treatment.

Immediately wash with water and soap and rinse thoroughly.

Immediately remove any clothing soiled by the product.

##### · After eye contact:

Seek immediate medical advice.

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

##### · After swallowing:

Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

#### 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:

Fire-extinguishing powder

Carbon dioxide

Use fire extinguishing methods suitable to surrounding conditions.

Foam

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

Can form explosive gas-air mixtures.

##### · 5.3 Advice for firefighters

· **Protective equipment:** Wear self-contained respiratory protective device.

##### · Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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### SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

**· 6.2 Environmental precautions:** No special measures required.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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**

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with skin and eyes.

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

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:** Not required.

**· Further information about storage conditions:** Protect from heat and direct sunlight.

**· 7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

**· Additional information about design of technical facilities:** No further data; see item 7.

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

**CAS: 106-97-8 butane**

WEL	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm
	Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm
	Carc (if more than 0.1% of buta-1.3-diene)

**· Additional information:** The lists valid during the making were used as basis.

**· 8.2 Exposure controls**

**· Personal protective equipment:**

**· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**· Respiratory protection:** Not necessary if room is well-ventilated.

**· Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**· Material of gloves**

The selection of the suitable gloves 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

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resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Not required.
- **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Aerosol

**Colour:** Colourless

- **Odour:** Recognisable

- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

**Melting point/freezing point:** Undetermined.

**Initial boiling point and boiling range:** Not applicable, as aerosol.

- **Flash point:** Not applicable, as aerosol.

- **Flammability (solid, gas):** Not applicable.

- **Ignition temperature:** >200 °C

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Not determined.

- **Explosive properties:** Not determined.

- **Explosion limits:**

**Lower:** 1.4 Vol %

**Upper:** 10.9 Vol %

- **Vapour pressure:** Not determined.

- **Density at 20 °C:** 0.55 g/cm<sup>3</sup>

- **Relative density** Not determined.

- **Vapour density** Not determined.

- **Evaporation rate** Not applicable.

- **Solubility in / Miscibility with**

**water:** Not miscible or difficult to mix.

- **Partition coefficient: n-octanol/water:** Not determined.

- **Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

**Organic solvents:** 100.0 %

**VOC (EC)** 550.0 g/l

**Solids content:** 0.0 %

- **9.2 Other information** No further relevant information available.

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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 toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**CAS: 75-28-5 isobutane**

Inhalative	LC50/4 h	658 mg/l (rat)
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**CAS: 74-98-6 propane**

Inhalative	LC50/4 h	>20 mg/l (rat)
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**CAS: 106-97-8 butane**

Inhalative	LC50/4 h	658 mg/l (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not hazardous for water.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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**· European waste catalogue**

16 05 04*	gases in pressure containers (including halons) containing hazardous substances
15 01 04	metallic packaging

**· Uncleaned packaging:**
**· Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

**· 14.1 UN-Number**
**· ADR/RID/ADN, IMDG, IATA** UN1950

**· 14.2 UN proper shipping name**

<b>· ADR/RID/ADN</b>	UN1950 AEROSOLS
<b>· IMDG</b>	AEROSOLS
<b>· IATA</b>	AEROSOLS, flammable

**· 14.3 Transport hazard class(es)**
**· ADR/RID/ADN**


<b>· Class</b>	2 5F Gases.
<b>· Label</b>	2.1

**· IMDG, IATA**


<b>· Class</b>	2.1
<b>· Label</b>	2.1

**· 14.4 Packing group**
**· ADR/RID/ADN, IMDG, IATA** Void

**· 14.5 Environmental hazards:**
**· Marine pollutant:** No

**· 14.6 Special precautions for user**

<b>· Danger code (Kemler):</b>	Warning: Gases.
<b>· EMS Number:</b>	-
<b>· Stowage Code</b>	F-D,S-U
	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.
<b>· Segregation Code</b>	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 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

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**· Transport/Additional information:**
**· ADR/RID/ADN**
**· Limited quantities (LQ)**

1L

**· Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

**· Transport category**

2

**· Tunnel restriction code**

D

**· IMDG**
**· Limited quantities (LQ)**

1L

**· Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

**· UN "Model Regulation":**

UN 1950 AEROSOLS, 2.1

### SECTION 15: Regulatory information

**· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
**· Directive 2012/18/EU**
**· Named dangerous substances - ANNEX I** None of the ingredients is listed.

**· 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** Conditions of restriction: 3

**· 15.2 Chemical safety assessment:** 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.

**· Relevant phrases**

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

**· Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport 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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases – Category 1

Aerosol 1: Aerosols – Category 1

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

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