

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Druckluftspray WS-3100-400 (025)**  
Creation date: 7.12.2017 · Revision: 30.4.2020 · Version: 1

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

#### Product name

**Druckluftspray WS-3100-400 (025)**



chemius.net/RBs20

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

#### Relevant identified uses

Aerosol propellant gas.

#### Uses advised against

No information.

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

#### Supplier

Wekem GmbH  
Address: Emilie-Winkelmann-Str. 2,  
D-59192 Bergkamen, Germany  
Phone: +49-(0)-23 89-40 30 10  
Fax: +49-(0)-23 89-40 30 111  
E-mail: [vertrieb@wekem.de](mailto:vertrieb@wekem.de)

### 1.4. Emergency telephone number

#### Emergency

112

#### Supplier

Tel.: +49 (0) 2389 403010

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 (CLP)

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

### 2.2 Label elements

#### 2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word: **Danger**

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
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.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

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## 2.2.2. Contains:

-

## 2.2.3. Special provisions

Special hazards are not known or expected.

## 2.3. Other hazards

No information.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

For mixtures see 3.2.

### 3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
isobutane [C, S]	75-28-5 200-857-2 601-004-00-0	50-100	Flam. Gas 1; H220 Press. Gas; H280		01-2119485395-27
propane [U]	74-98-6 200-827-9 601-003-00-5	25-50	Flam. Gas 1; H220 Press. Gas; H280		01-2119486944-21

### Notes for substances:

<b>C</b>	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers.  In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
<b>S</b>	This substance may not require a label according to Article 17 (see Section 1.3 of Annex I) (Table 3).
<b>U</b>	When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General notes

When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

#### Following inhalation

Leave contaminated area - breathe fresh air. If symptoms develop and persist, seek medical attention.

#### Following skin contact

Areas of the body that have come into contact with the product must be rinsed with water and soap. If symptoms develop and persist, seek medical attention.

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

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## Following ingestion

Not likely.

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

### Inhalation

Because of breathing vapours at high concentrations symptoms like headache, dizziness, nausea and unconsciousness.  
Difficulties with breathing.

### Skin contact

Rapid evaporation of the liquid may cause frostbite.

### Eye contact

Contact with eyes can cause irritation (redness, tearing, pain).  
May cause frostbite.

### Ingestion

Not likely.

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

-

## **SECTION 5. FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>).  
Fire extinguishing powder.  
Water spray. Extinguish large fires with water spray or alcohol-resistant foam.

#### Unsuitable extinguishing media

Full water jet.

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

#### Hazardous combustion products

Vapours and air can form explosive mixtures. In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

### **5.3. Advice for firefighters**

#### Protective actions

In case of fire or heating do not breathe fumes/vapours. Closed container exposed to heat and fire can cause increased pressure and explosion. Vapours can travel to a source of ignition and flash back. Cool containers at risk with water spray. If possible remove containers from endangered area. No action shall be taken involving any personal risk or without suitable training.

#### Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

#### Additional information

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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

### 6.1.1. For non-emergency personnel

#### **Protective equipment**

Use personal protective equipment (Section 8).

#### **Emergency procedures**

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! Prevent access to unprotected personnel. Prevent access to unauthorised personnel. Avoid contact with skin and eyes. Do not breathe gas.

### 6.1.2. For emergency responders

Use personal protective equipment. Prevent accumulation of vapours with water spray.

## 6.2. Environmental precautions

Prevent the gas from spreading to places where accumulation of it could be dangerous (sewage system, surface depressions, etc.) Prevent from reaching sewage system, holes and cellars.

## 6.3. Methods and material for containment and cleaning up

### 6.3.1. For containment

-

### 6.3.2. For cleaning up

Ventilate the premises.

### 6.3.3. Other information

-

## 6.4. Reference to other sections

See also Sections 8 and 13.

# SECTION 7. HANDLING AND STORAGE

## 7.1. Precautions for safe handling

### 7.1.1. Protective measures

#### **Measures to prevent fire**

Ensure adequate ventilation. Vapours and air form explosive mixtures. Protect from open fire and other sources of ignition or heat. Do not smoke. Take precautionary measures against static discharges. Ignitable mixtures can form in the empty container. Use explosively safe equipment (ventilators, lighting, working instruments and devices,...); Use spark-proof tools. Do not spray on a naked flame or incandescent material.

#### **Measures to prevent aerosol and dust generation**

Ensure good ventilation and extraction.

#### **Measures to protect the environment**

-

#### **Other measures**

Make sure that all applicable workplace limits are observed.

### 7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin and eyes. Do not breathe gas.

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## 7.2. Conditions for safe storage, including any incompatibilities

### 7.2.1. Technical measures and storage conditions

Follow safe storage practices for packed compressed gas as described by the Compressed Gas Association or the relevant agency in the country where the product is used. Keep in cool place. Keep in a dry place. Store in well-ventilated, explosion-proof areas. Keep away from sources of ignition - no smoking. Protect against heat and direct sunlight. Handle and open the container carefully. Keep away from flammable substances. Keep away from self-igniting materials. Keep away from oxidising substances. Keep away from food, drink and animal feeding stuffs. Storage temperature < 50°C.

### 7.2.2. Packaging materials

Store only in original container.

### 7.2.3. Requirements for storage rooms and vessels

-

### 7.2.4. Storage class

-

### 7.2.5. Further information on storage conditions

-

## 7.3. Specific end use(s)

### Recommendations

-

### Industrial sector specific solutions

-

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

No information.

#### 8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

#### 8.1.3. DNEL/DMEL values

No information.

#### 8.1.4. PNEC values

No information.

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering control

##### Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with eyes and skin. Do not breathe gas. Do not breathe vapours/aerosols.

##### Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

#### 8.2.2. Personal protective equipment

##### Eye and face protection

Safety goggles (EN 166).

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## Hand protection

Protective gloves (EN 374). 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. The product consists of various substances, therefore the resistance of gloves can not be calculated and has to be tested before use. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

## Skin protection

Protective antistatic clothing EN 1149 (1:2006, 2:1998 and 3:2004, 5:2008), protective antistatic shoes (EN 20345:2012). Choose body protection according to the activity and possible exposure.

## Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. In case of insufficient ventilation wear mask with filter AX (EN 14387). 'High/elevated concentrations' means that the occupational exposure limit values have been exceeded. For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard EN 137, EN 138.

## Thermal hazards

-

## 8.2.3. Environmental exposure controls

-

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

-	<b>Physical state:</b>	liquid; aerosol
-	<b>Colour:</b>	colourless
-	<b>Odour:</b>	characteristic

### Important health, safety and environmental information

-	<b>pH</b>	No information.
-	<b>Melting point/freezing point</b>	No information.
-	<b>Initial boiling point/boiling range</b>	-42 – 0 °C
-	<b>Flash point</b>	ca. -80 °C
-	<b>Evaporation rate</b>	No information.
-	<b>Flammability (solid, gas)</b>	ca. 365 °C
-	<b>Explosion limits (vol%)</b>	1,5 – 10,9 vol %
-	<b>Vapour pressure</b>	1200 – 7500 hPa at 20 °C
-	<b>Vapour density</b>	No information.
-	<b>Density</b>	<b>Density:</b> 0,548 g/cm <sup>3</sup> at 20 °C
-	<b>Solubility</b>	<b>Water:</b> < 0,1 g/l at 20 °C
-	<b>Partition coefficient</b>	No information.
-	<b>Auto-ignition temperature</b>	No information.
-	<b>Decomposition temperature</b>	No information.
-	<b>Viscosity</b>	No information.
-	<b>Explosive properties</b>	Product is not self igniting. In use, may form flammable/explosive vapour-air mixture.
-	<b>Oxidising properties</b>	Not oxidising.

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## 9.2. Other information

-	Weight organic solvents	550 g/l (VOC) 100 % (VOC)
-	Remarks:	

## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Vapours / aerosols and propellants may form explosive mixture with air.

### 10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3. Possibility of hazardous reactions

Uncleaned empty containers may contain product gases which form explosive mixtures with air.

### 10.4. Conditions to avoid

Mechanical influences (e.g. pressure, friction, impact, shock). Protect from heat, direct sunlight, open fire, sparks. Because of the high vapour pressure, containers are liable to burst if temperature rises. Do not smoke. Take precautionary measures against static discharges.

### 10.5. Incompatible materials

Strong oxidising agents.  
Peroxide.

### 10.6. Hazardous decomposition products

Carbon dioxide; Carbon monoxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### (a) Acute toxicity

No information.

#### (b) Skin corrosion/irritation

Name	Species	Time	Result	Method	Remark
For product			Non-irritant.		

#### (c) Serious eye damage/irritation

Name	Species	Time	Result	Method	Remark
For product			Non-irritant.		

#### (d) Respiratory or skin sensitisation

**Additional information:** No sensitising effects known.

#### (e) (Germ cell) mutagenicity

No information.

#### (f) Carcinogenicity

No information.

#### (g) Reproductive toxicity

No information.

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## Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

### (h) STOT-single exposure

No information.

### (i) STOT-repeated exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
For product	inhalation	-					Vapours may cause narcotic effects.		high vapours concentrations

### (j) Aspiration hazard

No information.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### 12.1.1. Acute (short-term) toxicity

No information.

#### 12.1.2. Chronic (long-term) toxicity

No information.

### 12.2. Persistence and degradability

#### 12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

#### 12.2.2. Biodegradation

No information.

### 12.3. Bioaccumulative potential

#### 12.3.1. Partition coefficient

No information.

#### 12.3.2. Bioconcentration factor (BCF)

No information.

### 12.4. Mobility in soil

#### 12.4.1. Known or predicted distribution to environmental compartments

No information.

#### 12.4.2. Surface tension

No information.

#### 12.4.3. Adsorption/Desorption

No information.

### 12.5. Results of PBT and vPvB assessment

No evaluation.

### 12.6. Other adverse effects

The product contains no absorbable organic halogens (AOX).



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## 12.7. Additional information

### For product

Handle in accordance with good working practices so that the product is not released into the environment.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### 13.1.1. Product / Packaging disposal

##### **Waste chemical**

Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

##### **Waste codes / waste designations according to LoW**

16 05 04\* - gases in pressure containers (including halons) containing dangerous substances

##### **Packaging**

Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities.

##### **Waste codes / waste designations according to LoW**

15 01 11\* - metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

#### 13.1.2. Waste treatment-relevant information

-

#### 13.1.3. Sewage disposal-relevant information

-

#### 13.1.4. Other disposal recommendations

-

## SECTION 14. TRANSPORT INFORMATION

### 14.1. UN number

UN 1950

### 14.2. UN proper shipping name

AEROSOLS

### 14.3. Transport hazard class(es)

2

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

NO.

### 14.6. Special precautions for user

#### **Limited quantities**

1 L

#### **Tunnel restriction code**

(D)



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## IMDG flashpoint

-80 °C, c.c.

## IMDG EmS

F-D, S-U

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

Goods may not be carried in bulk in bulk containers, containers or vehicles.

## SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

#### 15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

#### 15.1.2. Special instructions

Observe the restrictions on the employment of minors.

### 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16. OTHER INFORMATION

### Indication of changes

-

### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue

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EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC<sub>50</sub> - Lethal Concentration to 50 % of a test population  
LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

## Key literature references and sources for data

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## List of relevant H phrases

H220 Extremely flammable gas.  
H280 Contains gas under pressure; may explode if heated.

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- ☒ Provided correct labelling of the product
- ☒ Compliance with the local legislation
- ☒ Provided correct classification of the product
- ☒ Provided adequate transport data

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