

SAFETY DATA SHEET

Section 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier** D-400B, 180015
Compressed gas cleaner for office equipment
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Relevant identified uses: product for cleaning and removing dust from office equipment.
Uses advised against: not determined.
- 1.3 Details of the supplier of the safety data sheet**
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- 1.4 Emergency telephone number**
112 (Sweden)

Section 2: Hazards identification

- 2.1 Classification of the substance or mixture**
Flam. Aerosol 1 H222, H229
Extremely flammable aerosol. Pressurised container: May burst if heated.
- 2.2 Label elements**
Hazard symbols and signal words



DANGER

Hazard statements

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

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.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

2.3 Other hazards

Substances contained in the mixture do not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

Section 3: Composition/information on ingredients

- 3.1 Substances**
Not applicable.

SAFETY DATA SHEET

3.2 Mixtures

butane

Concentration:	50-80%
CAS number:	106-97-8
EC number:	203-448-7
Index number:	-
Registration number:	-
Classification:	Flam. Gas 1 H220, Press. Gas H280

propane

Concentration:	20-50%
CAS number:	74-98-6
EC number:	200-827-9
Index number:	-
Registration number:	-
Classification:	Flam. Gas 1 H220, Press. Gas H280

Full text of each relevant H phrase is given in section 16 of SDS.

Section 4: First aid measures

4.1 Description of first aid measures

Skin contact: take off contaminated clothes. Wash skin with water. Consult a doctor, if disturbing symptoms appear. In case of frostbite, sprinkle it with tepid water and apply a sterile dressing.

Eye contact: wash out with plenty of water for 10-15 min holding eyelids open. Protect non-irritated eye, remove any contact lenses. Consult a doctor, if disturbing symptoms appear.

Ingestion: exposure by this route is not usually expected.

Inhalation: remove the victim to fresh air. Keep warm and calm. Consult a doctor, if disturbing symptoms persist.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: in case of prolonged direct contact with the product may cause frostbite.

Eye contact: redness, tearing.

Inhalation: vapors of the product may cause drowsiness and dizziness, nausea, coordination disorders, high concentration of vapors may cause narcotic effects, in extreme cases it may lead to suffocation.

4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: foam, dry chemical, carbon dioxide.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

5.2 Special hazards arising from the substance or mixture

During the fire may produce toxic fumes containing e.g. of carbon oxides. Do not inhale combustion products, they can be dangerous for human health.

SAFETY DATA SHEET

5.3 Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Extremely flammable gas. It may form an explosive mixture with air. It is heavier than air and accumulates on the surface of the earth and in the lower parts of a room. It displaces oxygen in the air. Fire and heating lead to increase of pressure inside containers, what may lead to explosion. Remove the product from the fire zone, if it can be done safely. Cool endangered containers with water spray.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that the effects of breakdown are removed only by trained personnel. In case of large spills, isolate the exposed area. Use personal protective equipment. Avoid skin and eyes contact. Do not inhale aerosol. Keep away from sources of ignition. Do not smoke.

6.2 Environmental precautions

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Prevent from entering into drains, surface water and groundwater (explosion risk). Notify relevant emergency services.

6.3 Methods and material for containment and cleaning up

Collect depressurized containers mechanically. Allow gas to evaporate. Ventilate the contaminated room. Use only not sparking tools and explosion-proof equipment.

6.4 Reference to other sections

Appropriate conduct with waste product – see section 13.

Personal protective equipment – see section 8.

Section 7: Handling and storage

7.1 Precautions for safe handling

Take special care when working with the product. Avoid contamination of skin and eyes. Use personal protective equipment according to section 8. Before break and after work wash hands carefully. Use in accordance with its intended purpose. Do not inhale gas. Keep away from ignition sources and open fire. Do not smoke, do not use sparking equipment, do not wear clothing unprotected against electrostatic charges. Protect containers from heat. Provide adequate ventilation. Protect against electrostatic charges. Do not spray on an open flame or other ignition source.

7.2 Conditions for safe storage, including any incompatibilities

Store only in tightly closed, labeled containers in a well-ventilated place. Keep away from food, beverages or feed for animals. Keep away from oxidizing agents, direct sunlight, heat and ignition sources. Do not smoke, use open fire and sparking tools within the warehouse. Store below 50°C.

7.3 Specific end use(s)

Product is intended for cleaning and removal of dust from office equipment.

Section 8: Exposure controls/personal protection

8.1 Control parameters

There are no occupational exposure limit values at working place for the substances present in the mixture at the Community level.

Please check also national legislations. Legal Basis: Commission Directive 2006/15/EC, 2000/39/EC, 2009/161/EC.

SAFETY DATA SHEET

8.2 Exposure controls

Use the product in accordance with good occupational hygiene and safety practices. When handling do not eat, drink or smoke. Before break and after work wash hands carefully. Use a hand cream. Ensure adequate ventilation. Do not inhale the gas. If there is a risk of inflammation of the clothing on worker, emergency showers for washing entire body and separate eyewash stations should be installed.

Hand protection

In case of prolonged and frequent contact with the product use thermal protective gloves.

The material that the gloves are made of must be impenetrable and resistant to the product's effects. The selection of material must be performed with consideration of breakthrough time, penetration speed and degradation. Moreover, the selection of proper gloves depends not only on the material, but also on other quality features and changes depending on the manufacturer. The producer should provide detailed information regarding the exact breakthrough time. This information should be followed.

Eye/face protection

Use protective glasses, if there is a risk of eye contamination.

Respiratory protection

Normally not required. In case of the formation of vapours and aerosols, use absorbing equipment or absorbing and filtering equipment with a suitable protection class (class 1/protection against gases or vapours with a concentration in the air volume not exceeding 0.1%, class 2/protection against gases or vapours with a concentration in the air not exceeding 0.5%, class 3/protect against gases or vapours at concentrations in the air volume to 1%). In cases where the oxygen concentration is $\leq 17\%$ and/or maximum concentration of toxic substances in the air is $\geq 1.0\%$ by volume, isolating equipment should be used.

Personal protective equipment must meet requirements of directive 89/686/CE. Employer is obliged to ensure equipment adequate to activities carried out, with quality demands, cleaning and maintenance.

Environmental exposure controls

Do not empty into ground water, sewage system, drains or soil.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

appearance:	aerosol
colour:	colourless
odour:	characteristic
odour threshold:	not determined
pH:	not applicable
melting point/freezing point:	not determined
initial boiling point and boiling range:	not determined
flash point:	<0°C
evaporation rate:	not determined
flammability (solid, gas):	extremely flammable
upper/lower flammability or explosive limits:	not determined
vapour pressure:	not determined
vapour density (air=1):	> 1
density:	not determined
solubility:	insoluble in water
partition coefficient: n-octanol/water:	not determined
auto-ignition temperature:	not determined
decomposition temperature:	not determined
explosive properties:	not display, however product vapours may form explosive mixtures with air, in case of heating the container, there is a risk of explosion
oxidising properties:	not display
viscosity:	not determined

SAFETY DATA SHEET

9.2 Other information

No additional data.

Section 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

The product is stable under normal conditions of storage and use.

10.3 Possibility of hazardous reactions

Product vapors may form explosive mixtures with air.

10.4 Conditions to avoid

Avoid direct sunlight, heat and ignition sources, temperature above 50°C.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Not known.

Section 11: Toxicological information

11.1 Information on toxicological effects

Information regarding acute and/or delayed results of the exposure was defined on the basis of the information on product's classification and/or toxicological studies as well as the experience and knowledge of the manufacturer.

Acute toxicity

Based on available data, the classification criteria are not met.

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 sensitization

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

Product is not classified as hazardous for environment.

SAFETY DATA SHEET

12.2 Persistence and degradability

Not known for the mixture.

12.3 Bioaccumulative potential

No potential to bioaccumulate.

12.4 Mobility in soil

Product evaporates readily from water and soil. The gaseous components of the product quickly spread in the air.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Other adverse effects

The product does not affect global warming and does not destroys ozone layer.

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods for the mixture: disposal in accordance with the local legislation. Do not remove the residues from the original container.

Disposal methods for used packing: this waste is considered to be dangerous. Pass to certified company for utilization. Do not mix with other waste. Do not pierce or burn emptied containers.

Legal basis: Directive 2008/98/EC, 94/62/EC.

Section 14: Transport information

14.1 UN number

UN 1950

14.2 UN proper shipping name

AEROSOLS, flammable

14.3 Transport hazard class(es)

2 (label 2.1)

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Product is not dangerous for environment.

14.6 Special precautions for user

Keep way from heat and ignition sources, direct sunlight and temperature above 50°C.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.



Section 15: Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance) as amended.

SAFETY DATA SHEET

Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

15.2 Chemical safety assessment

It is not necessary to carry out a chemical safety assessment for the mixture.

Section 16: Other information

Full text of indicated H phrases mentioned in section 3

H220 Flammable gas.

H280 Contains gas under pressure; may explode if heated.

Clarification of aberrations and acronyms

PBT Persistent, Bioaccumulative and Toxic substance

vPvB very Persistent, very Bioaccumulative substance

Flam. Gas. 1 Flammable gas category 1

Press. Gas. Gases under pressure

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. Persons related to the transportation of the dangerous goods in compliance with the ADR Agreement should be properly trained within the scope of performed tasks (general training, on-the-job training and training related to the safety issues).

Other data

Classification of the mixture was made on the basis of calculation method based on the guideline of Regulation 1272/2008/EC (CLP).

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The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.