

Material-Safety-Data-Sheet analogous to EC Regulation 1907/2006

Product: **Dräger Saver PP and CF, incorp. Air, compressed** Page 1/2
 Document 9030159 Version: 01/10 Date of issue: 26.01.2010

1 Product and Company Identification

Product:	Part no.:
Dräger Saver PP 10	33 50 407
Dräger Saver PP 15	33 50 404
Dräger Saver PP 10 Plus	33 50 408
Dräger Saver PP 15 Plus	33 50 403
Dräger Saver CF 10	33 50 492
Dräger Saver CF 15	33 50 491

Dräger Saver PP and CF are Emergency Escape Breathing Apparatus (EEBA) incorporating a cylinder filled with compressed air.

Formula (compressed air): O₂ / N₂
 Manufacturer/Supplier: Dräger Safety AG & Co. KGaA
 Telephone: + 49 451/882-0
 Telefax: + 49 451/882-2080
 Address: Revalstr. 1
 City: Lübeck / F.R. Germany
 Postcode: D-23560
 EMERGENCY-NO: + 49 451/882-2395

2 Hazards Identification

Dräger Saver PP and CF are products which are not subject to identification. The requirements of EC regulation 1907/2006 do not apply to such products. Hence the following information is purely voluntary. Dräger Saver PP and CF are incorporating a cylinder filled with compressed air. The following information are regarding these cylinders:

Hazard: Compressed gas.
 Nature of Hazard: ./.
 Particular Hazards for Man and Environment: ./.

3 Composition / Information on Ingredients

Chemical Characterization (Constituent):
 Nitrogen, N₂: ca. 79 Vol %
 CAS-No. 7727-37-9
 EC-No. 231-783-9
 Oxygen, O₂: ca. 21 Vol %
 CAS-No. 7782-44-7
 EC-No. 231-956-9

4 First-Aid Measures

After inhalation: Not hazardous.
 Information to the physician: n. a.
 Skin/eye contact: No effect on living tissue.
 Ingestion: Not considered a potential route of exposure.

5 Fire-Fighting Measures

Appropriate Extinguishing Media:
 Water, fire extinguishers according to DIN 14406.
 Extinguishing Media Not Appropriate for Reasons of Safety: None
 Special Dangers Due to the Material, Its Products of Combustion or Resulting Gases:

Air does not burn but aids combustion.

Specific Methods:
 When fighting fires in the vicinity of pressure cylinders, adapt extinguishing measures to environment. Cool cylinders with water; remove from danger zone, if possible. Heating of the cylinders leads to a pressure increase which entails a risk of bursting.

6 Accidental Release Measures

Special Risks:
 Exposure to heat (fire) may cause bursting / explosion of cylinder. Not combustible.
 Health Precautions: None
 Environmental Precautions: None
 Procedures for Cleaning / Collection: None
 Additional Information: n. a.

7 Handling and Storage

Handling:
 Information on Safe Usage:
 Assure leak tightness of pressure cylinders and valves. Secure pressure cylinders against falling over. Provide valves with screwed sealing plugs (if possible). Open valves slowly. Avoid back flow and penetration of water into gas cylinders.
 Information on Fire and Explosion Protection:
 Do not store in the vicinity of combustible materials / gases. Keep away from heat sources, ignition sparks, naked flames, and other ignition sources.
 Storage:
 Requirements for Storage and Containers:
 Store in a cool (below 50 °C), well-ventilated place. Keep away from heat. Assure leak tightness of containers, secure against falling over.
 Information on Storage Together with Other Materials:
 Observe VCI concept for storing chemicals.
 Additional Information on Storage Conditions:
 Observe provisions of TRG 280.
 Storage Class: 2 A (VCI concept).

8 Exposure Controls / Personal Protection

Additional information on designing technical plants:
 Carefully observe Instructions for Use of devices for which pressure cylinders are used.
 Components having workplace-related limit values: n. a.
 Additional Information: n. a.
 General Safety and Hygiene Precautions:
 Do not smoke when handling the product.
 Personal Protection: None.

9 Physical and Chemical Properties

Appearance: Form: gaseous, compressed
 Colour: colourless
 Odour: odourless
 Safety-Relevant Data:
 Melting Point / Range: n. a.

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<p>Boiling Point / Range: n. a.</p> <p>Relative density, gas (15 °C, 1 bar): 1</p> <p>Solubility in Water (15 °C, 1 bar): ./.</p> <p>Viscosity (20 °C, 1.013 bar): ./.</p> <p>Further Information: n. a.</p>	<p>Regulations during transport (even if it is only one cylinder). The valves must be protected effectively.</p>
<p>10 Stability and Reactivity</p> <p>Stability and reactivity: Stable under normal conditions.</p> <p>Conditions to Avoid: n. a.</p> <p>Materials to Avoid: n. a.</p> <p>Dangerous decomposition products: n. a.</p> <p>Additional Information: Air does not burn but sustains combustion.</p>	<p>15 Regulatory Information</p> <p>Identification in Accordance with EC Directive (Suggestion of gases industry): Identification symbol and indication of danger: No symbols required, not classified as dangerous substance.</p> <p>Dangerous component determining labelling: ./.</p> <p>R-Phrases (recommended): Releasing gas may aid combustion.</p> <p>S-Phrases (recommended): S 9 Keep container in a well-ventilated place.</p> <p>National Regulations: Additional classification acc. to GefStoffV Annex II No.: n. a. (only if differing from EC classification)</p> <p>Information on employment restrictions: n. a.</p> <p>Störfallverordnung (Accident Regulation): n. a.</p> <p>Classification acc. to Flammable Liquids Regulation: n. a.</p> <p>Technical Instruction Air: Class: n. a. Figure: ./.</p> <p>Percentage (in case of liquids): n. a.</p> <p>Water hazard class (list classification): "not water-endangering"</p> <p>Further regulations, restrictions, and restrictive injunctions (such as principles of industrial medicine and health and safety regulations (VBG, ZH-1/ ..instruction sheets etc.): n. a.</p>
<p>11 Toxicological Information</p> <p>No toxicological effects from this product. LC_{50/1h}: Considered as non toxic.</p>	
<p>12 Ecological Information</p> <p>General Information: No ecological damage caused by this product. Air makes up the earth's atmosphere.</p>	
<p>13 Disposal Considerations</p> <p>Product / Recommendations: May be vented to atmosphere.</p> <p>Waste category (EWL, European waste list): 160505</p> <p>Waste designation: Gases in pressure containers other than those mentioned in 160504.</p> <p>Obligation to prove correct disposal: n. a.</p> <p>Not Cleaned Packing Material: n. a.</p> <p>Recommendations: Always return gas cylinders with residual pressure. The cylinders may be refilled by Dräger Safety AG & Co. KGaA. Carefully observe transport regulations.</p>	<p>16 Other Information</p> <p>The above information represents our current state of experience and describes the product only with respect to safety requirements. It is the responsibility of the customer to test whether the product is suitable for the purpose intended by the customer.</p> <p>Any questions of warranty and liability for this product are subject to our General Terms and Conditions unless legislation provides otherwise.</p> <p>Datasheet issued by: ag-ca Contact: Dr. Hans-Christoph Bechthold; hans-christoph.bechthold@draeger.com</p>
<p>14 Transport Information</p> <p>Overland transport ADR/RID and GGVSE (cross-border/domestic):</p> <p>ADR/RID-GGVSE-class: 2</p> <p>Classification code: 1A</p> <p>UN No.: 1002</p> <p>Designation of the freight: Air, compressed</p> <p>Remarks: Hazard label No.: 2.2</p> <p>Maritime transport IMDG/GGVSee:</p> <p>IMDG/GGVSee class: 2.2</p> <p>UN No.: 1002</p> <p>PG: ./.</p> <p>EMS No.: F-C, S-W</p> <p>MFAG: ./.</p> <p>Correct technical name: Air, compressed</p> <p>Air transport ICAO-TI and IATA-DGR</p> <p>ICAO/IATA class: 2.2</p> <p>UN No.: 1002</p> <p>Correct technical name: Air, compressed</p> <p>Transport/Further Indications: Must not be sent by post. Carefully observe Dangerous Goods</p>	