

P/N 4594695  
MATERIAL SAFETY DATA SHEET:

Revision Date 2/08

REV 3

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## SECTION 1 PRODUCT (Substance / Preparation) & CORPORATE NAME P/N 6400812

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Trade name of the product: flow check ampoules (formerly called cumulus™ ampoules)

Manufacturer Information:  
Dräger Safety AG & Co. KGaA  
Revalstr. 1  
23560 Lübeck/F. R. Germany  
Telephone number: +49 451/882-0  
Fax number: +49 451/882-2080

Supplier Information:  
Draeger Safety, Inc.  
101 Technology Drive  
Pittsburgh, PA 15275-1057  
Telephone number: (412) 787-8383  
Fax number: (412) 787-2207

Chemtrec Emergency Contact 800-424-9300

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## SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

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2.1 Chemical Characterization (Constituent): not applicable

2.2 Chemical Characterization (Preparation): not applicable

2.3 Additional Information:

**The flow check ampoules are products which are not subject to identification. The requirements of EC directive 91/155/EEC do not apply to such products. Hence the following information is purely voluntary.**

2.3.1 The Dräger flow check ampoules contain a special mixture of higher alcohols.

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## SECTION 3 HAZARDS IDENTIFICATION

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Hazard: The flow check ampoules are products which are not subject to identification.  
The requirements of EC directive 91/155/EEC do not apply to such products. n. a.

Particular Hazards for Man and Environment:

Improper handling, leaks, destruction of and/or damage to the ampoules the fluid can be set free.

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## SECTION 4 FIRST AID MEASURES

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After inhalation: Fresh air. At indisposition please contact a doctor.

After skin contact: Rinse with water. Remove contaminated clothes.

After eye contact: Rinse well with water.

After ingestion: Drink lots of water. At indisposition please contact a doctor.

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## SECTION 5 FIRE FIGHTING MEASURES

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Appropriate Extinguishing Media:

Foam, powder, spray water, fire extinguisher: P, K, W.

Particular Hazards Due to the Material, Its Products of Combustion or Resulting Gases:

Inflammable. Steams heavily as air. With strong heating of a large number of flow check ampoules the formation of combustible mixtures with air is possible. In the case of fire Acrolein can develop.

Special Protective Clothing or Equipment: n.a.

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## SECTION 6 ACCIDENTAL RELEASE MEASURES

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Procedures for Cleaning / Collection:

Take up with liquid-binding material. Clean afterwards with water.

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## SECTION 7 HANDLING AND STORAGE

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7.1 Handling: no further request

7.2 Storage: Temperature 5 - 30°C

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## SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

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General Safety and Hygiene Precautions:

When flow check ampoules are handled correctly, special safety and hygiene precautions are not necessary.

Respiratory Protection: not necessary

Hand Protection: not necessary

Body Protection: not necessary

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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- 9.1 Appearance:  
Form: liquid  
Color: colorless  
Smell: odorless
- 9.2 Safety-Relevant Data: cf. relevant instruction for use and section 2/3

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**SECTION 10 STABILITY AND REACTIVITY**

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- Conditions to Avoid: Burn  
Materials to Avoid: Fluid not into contact bringing with strong oxidizing agents, nitric acid/concentrate sulfuric acid, phosphoroxide, peroxide connections, hydrogen peroxide, halogens.  
Dangerous decomposition products: n. a.

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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- 11.1 Acute Toxicity n. a.  
Sensitization through skin contact n. a.  
11.2 Subacute to Chronic Toxicity: n. a.  
11.3 Effects on the Human Body: n. a.

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**SECTION 12 ECOLOGICAL INFORMATION**

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- 12.1 Elimination Information (Persistence and Degradability):  
Degradability: easily degradable in water  
Toxic of fish:  $LC_{50} > 1000$  mg/L
- 12.2 Behavior in Environmental Compartments: n. a.  
12.3 Ecotoxic Action: n. a.  
12.4 Additional Information: n. a.

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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- 13.1 Product / Recommendations:  
Used ampoules can be disposed of as normal domestic waste.
- 13.2 Packaging Material / Recommendations:  
Packaging material can be disposed of as normal domestic waste.

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**SECTION 14 TRANSPORT INFORMATION**

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no special transport regulations

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**SECTION 15 REGULATORY INFORMATION**

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- 15.1 Identification in Accordance with EC Directive:  
Identification letter and indication of danger: n. a.  
Dangerous component determining labeling: n. a.
- 15.2 National Regulations:  
Additional classification acc. to GefStoffV Annex II No.: n. a. (only if differing from EC classification)  
Information on employment restrictions: n. a.  
Störfallverordnung (Accident Regulation): n. a.  
Classification acc. to VbF (Flammable Liquids Regulation): n. a.  
Technische Anleitung Luft (Technical Instruction Air):  
Class: n. a. Figure: n. a. Percentage (in case of liquids)  
Water hazard class 0 (self-classification)

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**SECTION 16 OTHER INFORMATION**

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Reasons for alterations:  
Adoption of EC Safety Data Sheet format.

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. Any questions of warranty and liability for this product are subject to our General Terms and Conditions unless legislation provides otherwise.