

1 D 1 InstruDes



Version:	Date:	Changes:
2.5	19th June 2008	Physical and chemical properties reworked
2.4	12th March 2004	Conformity with Guideline 2001/58/EC, EmS-Coding Scheme, Section 1 Ingredient-, Composition- and Company-Information revised, revision control
2.3	09th March 2004	last version without declaration of changes

1.1 Ingredient-, Composition- and Company-Information

1.1.1 Product name

D 1 InstruDes

1.1.2 Product usage description

InstruDes is used for the disinfection, cleaning and chemical sterilisation of medical instruments.

1.1.3 Company name

ad-Arztbedarf GmbH, Gottlieb-Daimler-Str. 15, D – 50226 Frechen

1.1.4 Telephone- and Emergency calls:

Tel.: +49 – 2234 – 956760

1.2 Composition/information on ingredients

Characterization: Mixture of aldehydes, detergents and perfume.

Hazardous Ingredients	Concentration	Cas-No.	Danger symbol	R-Phrase
Formaldehyde	< 10	5 – 00 – 0 – 0	T	R 23/24/25, 34, 40, 43
Glutardialdehyde	< 12,5	111 – 30 – 8	Xn	R 22 – 37, 38, 41, 43
Monoethylenglycol	< 20	107 – 21 – 1	Xn	R 22

1.3 Possible Hazards

Indication: Eye irritation and eventually skin irritation. Harmful if inhaled, swallowed or brought in contact with skin. Remove to fresh air and contact a physician if necessary.

1.4 First – Aid Measures

After inhalation: See ingestion.
 After contact with eyes: Wash with water. Contact a physician immediately.
 After contact with skin: Flush with water, wash with soap. Remove contaminated clothing.
 After ingestion: Rinse mouth thoroughly and drink copious amounts of water and contact physician.

1.5 Fire fighting measures

Suitable extinguishing media : Water, foam, dry media, Carbon Dioxide
 Hazardous Combustion Products: Carbon Oxides, Nitric Oxides

1.6 Measures on accidental or unintentional release

Personal precaution: Wear protective equipment for eyes and skin.
 Environment precaution: Prevent from penetrating into the ground (concentrated product).
 Methods for decontamination: Dilute with plenty of water immediately.

1.7 Handling and storage

Handling: Store tightly closed.
 Fire prevention: not flammable.
 Conditions of storage: Store in cool and ventilated area.
 Keep away from food.

1.8 Explosion delimitation and personal protection

Technical protection: None (according to most recent knowledge).
 Personal protection: Wear protective equipment when working with the concentrate.
 Eye protection: Wear eye protection.
 Skin protection: Wear protective gloves when working with the concentrate.
 General measures: The usual precautions for the handling of chemicals must be observed.
 Maximum working place concentration of Formaldehyde: 0,6 mg/m³
 Maximum working place concentration of Glutardialdehyde: 0,8 mg/m³

1.9 Physical and chemical properties

Shape: Liquid Colour: Clear, blueish Odour: perfume, aldehyde

Safety-relevant data:

Solidification range:	about 0 ⁰ C	Solubility in water:	fully miscible
Boiling point:	100 ⁰ C	Viscosity at 20 ⁰ C:	6 – 8 m Pa. s
Flash point:	70 ⁰ C	pH-Value at 20 ⁰ C:	ca. 4
Vapor pressure at 50 ⁰ C:	30 mbar	Lower Explosion Limit (% by Volume):	
Density at 20 ⁰ C:	ca. 1,07 g/cm ³	Upper Explosion Limit: (% by Volume)	

1.10 Stability and reactivity

Hazardous reactions: Unknown (according to most recent knowledge)

1.11 Toxicity

Oral LD₅₀: About 980 mg / kg in rats (calculated).

Indication: Eye irritation and possibly skin irritation.

1.12 Ecological information

Moderate to eliminate. The product contains biodegradable substances.

1.13 Disposal considerations

According to the national procedures.

1.14 Transportation information

GGVSE:	8, VG III
UN-No.:	1903 + white hazard warning label, from 5 L up label class 8
Declaration:	liquid, slightly acidic, n.a.g
IMDG-code:	8
IMDG-pack-group:	II
EmS-Code:	F-A, S-B
Hazardous chemicals:	Formaldehyd, Glutardialdehyd
Dispatch information:	ship in UN-cardboard-boxes with hazard label class 8

1.15 Labeling information

Hazard warning sign:	C (acidic)
R – Phrases:	R 40/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed. R 42/43 May cause sensitization by inhalation and skin contact.
S – Phrases:	S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 28 After contact with skin wash immediately with plenty of water. S 36 Wear proper protecting clothing. S 37 Wear proper protecting gloves. S 51 Use only in well-ventilated areas.

Water hazard class: 2 (self classification)

1.16 Other information

CE-certified medical product.

The information contained herein is based on the present state of our knowledge. There is no further warranty with regard to any product properties or any existing contract today or in the future. This European Union safety data sheet represents a legally mandatory document. It may be neither be shortened, amended nor completed in any way. The use is permitted only in its original form. The copyright 1999 - 2005 is with ad-Arztbedarf GmbH, Frechen, Germany. Comments, questions or corrections are welcome, please send them via email to <mailto:service@ad-arztbedarf.de>.