

Date of issue: 02.07.2002 Replaces Data Sheet of : —

"*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available



1 Identification of Substance / Preparation and Company

- 1.1 **Identification of Substance or Preparation**
Trade Name : Invisorb Spin Tissue Mini Kit, Elution Buffer D
Article No. : 10321040
Preparation No. : n.av.
- 1.2 **Use of the substance / preparation:**
 Analytics, Diagnostics
- 1.3 **Company / Supplier Identification**
- 1.3.1 **Address of the Company / Supplier:**
 INVITEK GES. FÜR BIOTECHNIK & BIODESIGN MBH, Robert-Rössle-Straße 10, D - 13125 Berlin
 Telephone : +49-30-94 89-3796, Fax : +49-30-94 89-3795
- 1.3.2 **Responsible :**
 Chemie & Vorschrift, Kannheideweg 35, D-53123 Bonn-Duisdorf
- 1.4 **Emergency - Telephone**
 Information Centre Specialising in Symptoms of Poisoning Emergency - Telephone of Company / Undertaking
 Telephone : ++49 - 761 - 19 240 Telephone : +49-30-94 89-3796

2 Composition / Information on Ingredients

- 2.1 **Chemical Characterisation:**
 Aqueous solution of buffers
 - 2.2 **Dangerous Ingredients:**
- | CAS - No. | Index - No. | EEC - No. | Material | m% - range | Symbol R - phrases |
|-----------|-------------|-----------|----------|------------|--------------------|
| | | | | | |

Remarks: Classification and labelling of a product is indicated under item 15.

3 Hazards Identification

- 3.1 **For Humans** (additional information is given under item 11) :
 No special dangers known.
- 3.2 **For the Environment :**
 None.
- 3.3 **For Materials:**
 None.

4 First Aid Measures

- 4.1 **Inhalation:**
 Remove person to fresh air.
 In the event of symptoms occurring, seek medical treatment.
- 4.2 **Skin Contact :**
 Wash with soap and water.
- 4.3 **Eye Contact :**
 Flush eyes out immediately with large amounts of water with eye lids lifted.
- 4.4 **Ingestion :**
 Rinse mouth out and drink plenty of water.
 In the event of symptoms occurring, seek medical treatment.
- 4.5 **Note to Physician:**
 Symptomatic treatment.
- 4.6 **Special Equipment:**
 Not relevant

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5 Fire Fighting Measures

- 5.1 **Suitable Extinguishing Media :** Use water spray jet only. Foam, dry chemicals, CO₂.
- 5.2 **Extinguishing Media to Avoid :** None.
- 5.3 **Fire and Explosion Hazards :**
None.
- 5.4 **Additional Information :** This material is not combustible; use extinguishing media appropriate for surrounding fire.
- 5.5 **Special Protective Equipment :**
Wear positive pressure self-contained breathing apparatus.
Wear full protective clothing.

6 Accidental Release Measures

- 6.1 **Personal Precautions :**
See No. 8.3 Personal Protective Equipment.
- 6.2 **Environmental Precautions and Methods for Cleaning up :**
Do not allow larger quantities to enter drainage. Soak up with absorbent material.
Inform responsible authorities after accidental conduction of larger quantities.
- 6.3 **Further Information :** None.

7 Handling and Storage (For national regulations refer to item 15.2)

- 7.1 **Handling**
 - 7.1.1 **Precautions for Safe Handling :**
No special measures necessary if used correctly.
 - 7.1.2 **Precautions in Case of Fire and Explosion :**
No special measures necessary if used correctly.
- 7.2 **Storage**
 - 7.2.1 **Storage Instructions :**
No special measures necessary if used correctly.
 - 7.2.2 **Store away from :**
Store away from oxidizers.
 - 7.2.3 **Further Information on Storage Conditions :**
None.
 - 7.2.4 **Storage Class :** 12 (VCI - Concept)

8 Exposure Controls and Personal Protection

- 8.1 **Information on System Design :**
Provide for sufficient exhaustion. Provide personal protective equipment.
- 8.2 **Exposure Limits:**
 - 8.2.1 **Material** **Limit Value :**
- 8.3 **Personal Protective Equipment**
 - 8.3.1 **General Protection and Hygiene :**
Do not inhale vapours. Avoid prolonged and / or repeated contact with skin. Avoid contact with eyes.
Remove contaminated, saturated clothing immediately. Do not eat, drink or smoke during work.
 - 8.3.2 **Respiratory Protection :** No.
 - 8.3.3 **Hand Protection :** In case of prolonged skin contact use protective gloves.
 - 8.3.4 **Eye Protection :** Not relevant
 - 8.3.5 **Skin Protection :** Not relevant
 - 8.3.6 **Further Information :** Refer to special restrictions in wearing protective equipment

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9.1	Appearance		
9.1.1	Form : liquid	9.1.2 Colour : colourless	9.1.3 Odour : almost odourless
9.2	Safety Relevant Data		
9.2.1	pH-value, undiluted :	n.av.,	pH-value, 1% aqueous solution : n.av.
9.2.2	Boiling point / Boiling - range (°C) :	~ 100,	Melting point / Melting range (°C) : < 0
9.2.3	Flash point (°C, c.c.) :	n.ap.	
9.2.4	Flammability (EEC A10/A13) :	n.ap.	
9.2.5	Ignition temperature (°C) :	n.ap.	
9.2.6	Autoflammability (EEC A16) :	n.ap.	
9.2.7	Oxidising properties :	None.	
9.2.8	Explosion hazard :	No.	
9.2.9	Explosion limits (Vol.%) lower :	None.,	upper : None.
9.2.10	Vapour pressure :	n.av.	
9.2.11	Density (g/ml) :	~ 1	
9.2.12	Solubility (in Water) :	Miscible	Soluble in : polar solvents
9.2.13	Partition coefficient, n-Octanol/Water :	n.av.	
9.2.14	Viscosity :	n.av.	
9.2.15	Solvent separation test :	n.av.	
9.2.16	Solvent content (m %) :	n.ap.	
9.3	Further Data		
9.3.1	Thermal decomposition (°C) :	n.av.	
9.3.2	Vapour density (Air = 1) :	n.ap.	
9.3.3	Evaporation rate :	n.av.	

10 Stability and Reactivity

10.1	Conditions to Avoid :	No special measures necessary if used correctly.
10.2	Materials to Avoid :	None.
10.3	Hazardous Decomposition Products :	No dangerous decomposition products when properly handled.
10.4	Further Information :	None.

11 Toxicological Information

11.1	Toxicological Tests :	
11.1.1	Acute Health Effects :	
	Inhalation, LC ₅₀ rat, (mg/l/4h) :	n.av.
	Ingestion, LD ₅₀ rat, (mg/kg) :	n.av.
	Skin - contact, LD ₅₀ rat, (mg/kg) :	n.av.
	Irritation (to skin / eye) :	No.
	Sensitisation :	No.
11.1.2	Subacute / Chronic Toxicity :	
	Carcinogenicity :	No.
	Mutagenicity :	n.av.
	Teratogenicity :	n.av.
	Narcotic Effects :	None.
11.2	Practical Experience	
11.2.1	Observations relevant for classification :	None.
11.2.2	Further Observations :	None.
11.3	General Remarks :	Classification of the preparation has been done by calculation in accordance with EEC directives.

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12 Ecological Information

12.1 **Ecotoxic Effects, Aquatic Toxicity :**
n.av.

12.2 **Behaviour in Sewage Works :**
Mobility and Accumulation Potential : n.av.

12.3 **Elimination (Persistence and Degradability) :**
The product is biodegradable.

12.4 **Other Ecological Information**

- 12.4.1 COD-Value, mg/g : n.av.
- 12.4.2 BOD₅-Value, mg/g : n.av.
- 12.4.3 AOX-Remarks : n.ap.
- 12.4.4 Significant Components : None.
- 12.4.5 Other adverse effects : None.

13 Disposal Considerations (For national Regulations refer to item 15.)

13.1 **Residues**

13.1.1 Recommendation : R 2 / D 10 Waste - Code - No. : 07 06 99
In addition comply with the regional authorities.

13.1.2 Safe Handling: See item 7 and 15.

13.2 **Contaminated Packaging**

13.2.1 Recommendation : Wash with suitable cleaner. Otherwise as described under Residues.
13.2.2 Safe Handling : As described under Residues.

14 Transport Information

14.1 **Transportation by Road or Railway according to ADR/GGVS and RID/GGVE**

Remarks : No dangerous goods according to ADR

Class : Classification Code : Packing Group :
Hazard-No. : UN-No. :

14.1.1 **Instruction Concerning Shipper's Declaration and Packaging :**

Volume or Mass	Name and Description	Risklabel Packing - Code or instruction
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14.2 **Classification for Transportation by Inland-Navigation according to ADNO/GGVBinSch**

Remarks : Classification has not been done.

Class : Division : Category :

14.2.1 **Description of Goods :**

14.2.2 **Remarks :**

14.3 **Classification for Transportation by Vessels according to IMDG/GGVSee**

Remarks : No dangerous goods according to IMDG

Class : UN-No. : Packing Group :
(MFAG-Table :)

14.3.1 **EmS-No. :**

14.3.2 **Marine Pollutant :**

14.3.3 **Instruction for Declaration and Labelling :**
(Packing sizes with possible exemptions not considered)

Proper Shipping Name :

Risk Label :

14.3.4 **Remarks :**

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14.4 Classification for Transportation by Aeroplane according to IATA-DGR/ICAO-TI

Remarks : No dangerous goods according to IATA-DGR

Class : UN-No. : Packing Group :

14.4.1 Instruction for Declaration and Labelling :

(Packing sizes with possible exemptions not considered)

Proper Shipping Name :

Risk Label :

Packing Instructions, Passenger : Cargo :

14.4.2 Remarks :

15 Regulatory Information

15.1 Classification according to EEC-Regulations :

Classification required by EEC : No.

Applicable Exemptions :

Hazard Identification :

Hazard Symbol(s) :

Component(s) :

R-Phrases :

S-Phrases :

Additional Markings :

15.1.1 The above mentioned labelling is valid for distribution to industrial user.

Labelling (formats, exemptions, additional markings) has to be done according to respective regulations.

15.2 National Regulations (Valid for Gemany only)

15.2.1 **Beschäftigungsbeschränkung nach MuSchG / JArbSchG beachten :** No.

15.2.2 **Aufbewahrungspflicht nach § 24 GefStoffV beachten :** No.

15.2.3 **Störfallverordnung beachten :** No.

15.2.4 **Klassifizierung nach VbF: .** No.

15.2.5 **Technische Anleitung Luft :** Klasse Ziffer Anteil m%
n.ap.

15.2.6 **Wassergefährdungsklasse :** 1 (Classification according to VwVwS)

15.2.7 **Regelungsbereich der TRGS 514 beachten :** No.

15.2.8 **Regelungsbereich der TRGS 515 beachten :** No.

15.2.9 **Regelungsbereich der TRG 300 beachten :** No.

15.2.10 **Regelungsbereich des WRMG beachten :** No.

15.2.11 **Gesundheitsschädlich i.S.d. § 2 Abs. 3 der Verpackungsverordnung :** No.

15.2.12 **Sonstige zu beachtende Vorschriften :** None.

16 Other Information

R- phrases:

n.ap.

This Material Safety Data Sheet relates to 2001/58/EEC and TRGS 220.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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