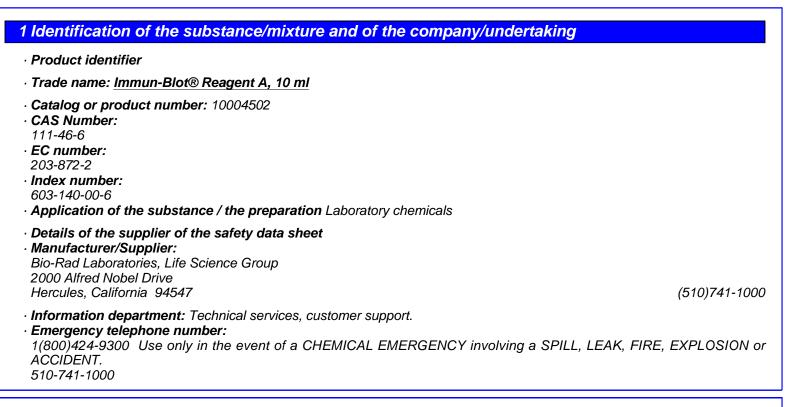
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2 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description:
- 111-46-6 2,2'-oxybisethanol
- Identification number(s):
- · EC number: 203-872-2
- · Index number: 603-140-00-6
- · Additional information: For the wording of the listed risk phrases refer to section 15.

3 Hazards identification

- · Classification of the substance or mixture
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC
 Xn; Harmful

R22: Harmful if swallowed.

- · Information concerning particular hazards for human and environment: not applicable
- · Classification system:

The classification was made according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company and/or literature information.

· Label elements

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

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· Code letter and hazard designation of product:



Xn Harmful

Risk phrases: 22 Harmful if swallowed.

· Safety phrases:

36 Wear suitable protective clothing.

- 60 This material and its container must be disposed of as hazardous waste.
- · Emergency overview:
- · Routes of exposure: Ingestion

4 First aid measures

· General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact Generally the product does not irritate the skin.
- · After eye contact Rinse opened eye for several minutes under running water.
- · After swallowing Immediately call a doctor.

5 Firefighting measures

- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment (See section 8). Keep unprotected persons away.
- Environmental precautions: Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water. • Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
- Reference to other sections
 See Section 7 for information on safe handling
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

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7 Handling and storage

- · Handling
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Components with limit values that require monitoring at the workplace:

111-46-6 2,2'-oxybisethanol

WEEL 10 mg/m³

- · Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment
- General protective and hygienic measures Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- · Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- · Eye protection: Safety glasses

· General Information		
· Appearance:		
Form:	liquid	
Color:	Colorless	
· Odor:	Nearly odorless	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	-8.5°C	
Boiling point/Boiling range:	245°C	
· Flash point:	> 100°C	
· Flammability (solid, gaseous)	Not applicable.	
· Ignition temperature:	225°C	
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Decomposition temperature:	Not determined.	
· Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	0.7 Vol %	
Upper:	22 Vol %	
Vapor pressure at 20°C:	0.03 hPa	
Density at 20°C:	1.12 g/cm ³	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible	
Segregation coefficient (n-octonol/	vater): Not determined.	
Viscosity:		
dynamic:	Not determined.	
kinematic:	Not determined.	
Organic solvents:	99.7 %	
Solids content:	0.3 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- · Acute toxicity:
- · LD/LC50 values for hazardous components per OSHA criteria:

111-46-6 2,2'-oxybisethanol

Oral LD50 12565 mg/kg (rat)

Dermal LD50 11890 mg/kg (rbt)

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritant effect.
- · Sensitization: No sensitizing effects known.

12 Ecological information

· Acquatic toxicity: No further relevant information available.

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 \cdot **Persistence and degradability** No further relevant information available.

· Behavior in environmental systems:

- · Bioaccumulative potential No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· Waste treatment methods

· Recommendation

Hand over to hazardous waste disposers. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

- **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Void
· Packing group · DOT, ADR, IMDG, IATA	Void
 Environmental hazards: Marine pollutant: 	No
· Special precautions for user	Not applicable.
 Transport in bulk according to Annex II of MARPOL73/ and the IBC Code 	78 Not applicable.

15 Regulatory information

 \cdot SARA (Superfund Amendents and Reauthorization Act of 1986 - USA)

· Section 302/304 (40CFR355.30 / 40CFR355.40):

Substance not listed.

Section 313 (40CFR372.65):

Substance is not listed.

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	A (Toxic Substances Control Act):
Sub	tance is listed.
Car	inogenic categories
EPA	(Environmental Protection Agency)
Sub	tance is not listed.
IAR	C (International Agency for Research on Cancer)
Sub	tance is not listed.
NTF	(National Toxicology Program)
Sub	tance is not listed.
TLV	(Threshold Limit Value established by ACGIH)
Sub	tance is not listed.
MA	(German Maximum Workplace Concentration)
Sub	tance is not listed.
NIO	SH-Ca (National Institute for Occupational Safety and Health)
Sub	tance is not listed.
OSł	A-Ca (Occupational Safety & Health Administration)
Sub	tance is not listed.

· Technical instructions (air):

 Class
 Share in %

 NK
 50-100

· Water hazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing MSDS: Environmental Health and Safety.
- Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000 · * Data compared to the previous version altered.

USA