

Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 15.11.2022 Revision: 15.11.2022 Version number 12.04 (replaces version 12.03)

1.1 Product identifier	
Trade name: <u>DNA/RNA-ExitusPlus™ IF</u>	
Article number: A7409 Application of the substance / the mixture Laboratory chemicals Molecular biology Biochemistry	
 1.3 Details of the supplier of the safety data shee Manufacturer/Supplier: 	et
AppliChem GmbH Ottoweg 4 D-64291 Darmstadt	Tel.: +49 (0)6151 935 Fax.: +49 (0)6151 9357 msds@applichem.co
• Further information obtainable from: Dept. Comp • 1.4 Emergency telephone number: +49(0)6151 93 • SECTION 2: Hazards identification	
• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1 The product is not classified, according to the GB C	
 2.2 Label elements Labelling according to Regulation (EC) No 1272/ Hazard pictograms Void 	/2008 Void
• Signal word Void • Hazard statements Void	

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: aqeous solution

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· Dangerous components:	(Con	td. of page 1)
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43- XXXX	ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	_ >4-≤5%

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: No special measures required.
- After inhalation:
- Supply fresh air. Seek medical treatment in case of complaints.
- After skin contact: Wash off with plenty of water.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- 4.2 Most important symptoms and effects, both acute and delayed Dizziness

Breathing difficulty

• **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

- Suitable extinguishing agents:
 CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 5.2 Special hazards arising from the substance or mixture
- In case of fire, the following can be released: Carbon monoxide and carbon dioxide Sulphur oxides (SOx) Non-combustible.
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Contain escaping vapours with water.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Avoid substance contact.

Do not inhale steams/aerosols.

- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Clean up affected area.

6.4 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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SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection: The product is not flammable.
- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Protect from exposure to the light.
- Keep container sealed.
- · Recommended storage temperature: Room Temperature
- · Storage class: 12
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

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

64-17-5 ethanol

WEL Long-term value: 1920 mg/m³, 1000 ppm

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

If decontaminating wide surfaces at once, care for proper ventilation.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

· Respiratory protection:

Suitable respiratory protective device recommended when dusts are generated.

Use suitable respiratory protective device only when aerosol or mist is formed.

· Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **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.

- For the permanent contact gloves made of the following materials are suitable: Recommended thickness of the material: <a> 0.11 mm Value for the permeation: Level <a> 480 min
 As protoction from splashos gloves made of the following materials are suitable:
- · As protection from splashes gloves made of the following materials are suitable: Recommended thickness of the material: ≥ 0.11 mm Value for the permeation: Level ≥ 480 min
- Eye/face protection Safety glasses

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· Body protection:

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Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties · General Information · Physical state Fluid · Colour: Colourless · Odour: Alcohol-like · Odour threshold: Not determined. · Melting point/freezing point: Undetermined. · Boiling point or initial boiling point and boiling range Undetermined. · Flammability Not applicable. · Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. · Flash point: Not applicable. · Decomposition temperature: Not determined. · pH Not determined. · Viscosity: · Kinematic viscosity Not determined. · Dynamic: Not determined. · Solubility · water: Fully miscible. · Partition coefficient n-octanol/water (log value) Not determined. Not determined. · Vapour pressure: · Density and/or relative density · Density: Not determined. · Relative density Not determined. · Vapour density Not determined. • 9.2 Other information · Appearance: · Form: Fluid · Important information on protection of health and environment, and on safety. • Auto-ignition temperature: Product is not selfigniting. · Explosive properties: Product does not present an explosion hazard. · Solvent content: · Organic solvents: 5.0 % · Water: 94.0 % · VOC (EC) 5.00 % 0.8 % · Solids content: · Change in condition · Evaporation rate Not determined. · Information with regard to physical hazard classes · Explosives Void · Flammable gases Void · Aerosols Void Oxidising gases Void · Gases under pressure Void · Flammable liquids Void (Contd. on page 5)

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Trade name: DNA/RNA-ExitusPlus™ IF

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· Flammable solids	Void	
· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
Pyrophoric solids	Void	
· Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- **10.6 Hazardous decomposition products:** In the event of fire: See chapter 5

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity
- LD/LC50 values relevant for classification:

Quantitative data on the toxicological effect of this product are not available.

· Components	Туре	Value	Species
ATE (Acute Toxicity	Estimates)		
Oral LD50 93,333 mg	g/kg (rat)		
Serious eye damage			
• After inhalation: No i	rritant effect.		
• 11.2 Information on o	other hazards		
 Endocrine disrupting 	g properties		
None of the ingredient	s is listed.		

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

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· 12.7 Other adverse effects

· Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· Recommendation:

Disposal must be made according to official regulations. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

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 14.1 UN number or ID number ADR, ADN, IMDG, IATA 	Void
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
 14.4 Packing group ADR, IMDG, IATA 	Void
· 14.5 Environmental hazards:	Not applicable.
 14.6 Special precautions for user 	Not applicable.
 14.7 Maritime transport in bulk according IMO instruments 	g to Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void
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SECTION 15: Regulatory information

 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

· Relevant phrases

H225 Highly flammable liquid and vapour.

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Printing date 15.11.2022 Revision: 15.11.2022 Version number 12.04 (replaces version 12.03)

H319 Causes serious eye irritation. Department issuing SDS: Dept. Compliance Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 * Data compared to the previous version altered.		(Contd. of page
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