

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Trade name: **GXT Blood 500 Extraction Kit**

Date of issue: February 06, 2019

Revised at: May 14, 2021 (Version B)



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## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### **1.1 Product identifier**

Trade name: **GXT Blood 500 Extraction Kit**

Order number: 12.05.02

### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Laboratory chemical

### **1.3 Details of the supplier of the safety data sheet**

Hain Lifescience GmbH

Hardwiesenstr. 1

72147 Nehren, Germany

Tel.: +49 (0) 74 73- 94 51- 0

E-mail: msds@hain-lifescience.de

### **1.4 Emergency telephone number**

+49 (0) 74 73- 94 51- 0 (Mon-Fri 8:00-17:00 CET)

## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008:

Flammable Liquid (category 3)

Acute Toxicity (oral, category 4)

Eye Irritation (category 2)

Skin Irritation (category 2)

### **2.2 Label elements**

Labelling according to Regulation (EC) No. 1272/2008:

Hazard pictograms:



Signal word:

Warning

Hazard statements:

H226:

Flammable liquid and vapour.

H302:

Harmful if swallowed.

H315:

Causes skin irritation.

H319:

Causes serious eye irritation.

Precautionary statements:

P210:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280:

Wear protective gloves/protective clothing/eye protection.

P301+312:

IF SWALLOWED: Call a POISON CENTER or doctor/physician.

P303+P361+P353:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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## 2.3 Other hazards

none

## **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

The reagent cartridges contain different solutions with the following hazardous substances:

<30% (w/w) **sodium perchlorate** (EC no. 231-511-9, CAS no. 7601-89-0)

Classification of sodium perchlorate (100%) according to Regulation (EC) No. 1272/2008: Oxidising solid (category 1), acute toxicity (category 4; oral); H271-302

<50% (w/w) **ethanol** (EC no. 200-578-6, CAS no. 64-17-5)

Classification of ethanol (100%) according to Regulation (EC) No. 1272/2008: Flammable liquids (category 2); H225

<50% (w/w) **guanidinium chloride** (EC no. 200-002-3, CAS no. 50-01-1)

Classification of guanidinium chloride (100%) according to Regulation (EC) No. 1272/2008: Acute toxicity (category 4; oral), skin irritation (category 2), eye irritation (category 2); H302-315-319

<1.5% **isotridecyl alcohol** (CAS no. 9043-30-5)

Classification of isotridecyl alcohol (100%) according to Regulation (EC) No. 1272/2008: Acute toxicity (category 4; oral), serious eye damage (category 1); H302-318

<1.5% **acetic acid** (CAS no. 64-19-7)

Classification of acetic acid (100%) according to Regulation (EC) No. 1272/2008: Flammable liquids (category 3), acute toxicity (category 4; dermal), skin corrosion (category 1A); H226-312-314

Full text of hazard statements: see section 16.

## **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

If symptoms arise, call a physician.

If inhaled:	Remove to fresh air. Call a physician.
If swallowed:	Wash out mouth with plenty of water. Drink plenty of water. Call a physician.
In case of skin contact:	Immediately wash skin with soap and copious amounts of water. Remove contaminated clothing. Call a physician.
In case of eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers. Call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

No data available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

No restriction; use any means suitable for extinguishing surrounding fire.

### **5.2 Special hazards arising from the substance or mixture**

Hydrogen chlorides, nitrogen oxides, carbon monoxides, irritating and toxic fumes and gases, carbon dioxides

### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Prevent fire-fighting water from entering surface water or groundwater. Vapor is heavier than air. May emit toxic gases or fumes under fire conditions.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear gloves and chemical safety goggles. Remove all sources of ignition. Ventilate area and wash spill site after material pickup is complete.

### **6.2 Environmental precautions**

Do not allow product to enter drains.

### **6.3 Methods and material for containment and cleaning up**

Pick up mechanically.

### **6.4 Reference to other sections**

Disposal: see section 13.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

No further requirements.

### **7.2 Conditions for safe storage, including any incompatibilities**

Keep tightly closed at 15-25°C in a dry, ventilated area away from heat sources and flammable and toxic substances.

### **7.3 Specific end use(s)**

No data available.

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

Occupational exposure limits:

Ethanol:

Long-term value: 380 mg/m<sup>3</sup>, 200 ml/m<sup>3</sup>

4(II); DFG, Y

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## Acetic acid:

Long-term value: 25 mg/m<sup>3</sup>, 10 ml/m<sup>3</sup>

2(l); DFG, EU, Y

## 8.2 Exposure controls

Wear suitable protective clothing, gloves, and chemical safety goggles when handling the product. Close vial tightly immediately after use. Wash hands thoroughly after handling.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- a) Appearance: liquid, colorless/brown
- b) Odour: none
- c) Odour threshold: No data available.
- d) pH: No data available.
- e) Melting point/freezing point: No data available.
- f) Initial boiling point and boiling range: No data available.
- g) Flash point: No data available.
- h) Evaporation rate: No data available.
- i) Flammability (solid, gas): No data available.
- j) Upper/lower flammability or explosive limits: No data available.
- k) Vapour pressure: No data available.
- l) Vapour density: No data available.
- m) Relative density: No data available.
- n) Solubility(ies): water soluble
- o) Partition coefficient n-octanol/water: No data available.
- p) Auto-ignition temperature: No data available.
- q) Decomposition temperature: No data available.
- r) Viscosity: No data available.
- s) Explosive properties: No data available.
- t) Oxidising properties: No data available.

### 9.2 Other information

No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

No data available.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

heating

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## 10.5 Incompatible materials

Strong acids, strong bases, strong oxidizing agents (e.g. sodium hypochlorite), cyanides

## 10.6 Hazardous decomposition products

Hydrogen chlorides, nitrogen oxides, carbon monoxides, irritating and toxic fumes and gases, carbon dioxides

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

a) Acute toxicity:

**Guanidinium chloride:**

LD50 (oral, rat): 475 mg/kg

b) Skin corrosion/irritation: No data available.

c) Serious eye damage/irritation: No data available.

d) Respiratory or skin sensitisation: No data available.

e) Germ cell mutagenicity: No data available.

f) Carcinogenicity: No data available.

g) Reproductive toxicity: No data available.

h) Specific target organ toxicity - single exposure: No data available.

i) Specific target organ toxicity - repeated exposure: No data available.

j) Aspiration hazard: No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

No data available.

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose of unused reagents and waste in accordance with federal, state, and local regulations. Do not allow product to enter drains. Transfer used cartridges, pipette tips and disposable pumps to a container for biohazardous waste and autoclave before disposal.

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## **SECTION 14: Transport information**

### **14.1 UN number**

ADR/RID: 3316

IMDG: 3316

IATA: 3316

### **14.2 UN proper shipping name**

ADR/RID: CHEMICAL KIT

IMDG: CHEMICAL KIT

IATA: CHEMICAL KIT

### **14.3 Transport hazard class(es)**

ADR/RID: 9

IMDG: 9

IATA: 9

### **14.4 Packing group**

ADR/RID: II

IMDG: II

IATA: II

### **14.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### **14.6 Special precautions for user**

No data available.

## **SECTION 15: Regulatory information**

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

No data available.

### **15.2 Chemical safety assessment**

No data available.

## **SECTION 16: Other information**

The following hazard statements refer to the classification of the components (pure substance, 100%) and not to the classification of the mixture:

- H225: Highly flammable liquid and vapour.
- H226: Flammable liquid and vapour.
- H271: May cause fire or explosion; strong oxidizer.
- H302: Harmful if swallowed.
- H312: Harmful in contact with skin.
- H314: Causes severe skin burns and eye damage.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.

The above product shall be used by trained staff only. The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide. Hain Lifescience shall not be held liable for any damage or other consequences resulting from handling or from contact with the above product.

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**Changes compared to the previous version of this document**

Sections 2, 3, 8, 11, 12, 16