

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**Trade name: **foodproof[®] Magnetic Preparation Kit VI**

Product code(s):

KIT230190 **foodproof[®] Magnetic Preparation Kit VI** (Ref. S 400 20.1 L)**1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the mixture

Laboratory and analytical use / Sample preparation solutions

1.3 Details of the supplier of the safety data sheet

Hygiena Diagnostics GmbH
Hermannswerder 17
14473 Potsdam
Phone: +49 (0) 331-23 00 200
Fax: +49 (0) 331-23 00 299
www.hygiena.com

1.4 Emergency telephone number:

Phone: +49 (0) 331-23 00 200
Office hours 09:30 - 16:00

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07

Acute Tox. 4	H302 Harmful if swallowed.
Acute Tox. 4	H332 Harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07



GHS08

Signal word Danger**Hazard-determining components of labelling**

guanidinium thiocyanate (Lysis Buffer, Wash Buffer I)
Proteinase, Tritirachium album serine (Proteinase K)

Hazard statements

H302+H332 Harmful if swallowed or if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.
P280 Wear protective gloves / eye protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

2.3 Other hazards

- Results of PBT and vPvB assessment
 - PBT:** Not applicable.
 - vPvB:** Not applicable.
- Determination of endocrine-disrupting properties
The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1 Substances

- Not applicable.

3.2 Mixtures

- Description:
Aqueous reagent solution for the preparation of DNA for direct use in PCR.
- Dangerous components:

CAS: 593-84-0 EINECS: 209-812-1	guanidinium thiocyanate Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Aquatic Chronic 3, H412	25 - 50%
CAS: 39450-01-6 EINECS: 254-457-8	Proteinase, Tritirachium album serine Resp. Sens. 1, H334; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	25 - 50%

- 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
Remove contaminated clothing immediately.
- After inhalation
Supply fresh air; consult doctor in case of symptoms.
- After skin contact

- Instantly wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
- After eye contact
 - Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.
 - Call a doctor immediately.
- After swallowing
 - Do not induce vomiting; instantly call for medical help.
- **4.2 Most important symptoms and effects, both acute and delayed**
 - No further relevant information available.
- **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
 - Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
 - Formation of toxic gases is possible during heating or in case of fire. Can be released in case of fire:
 - Carbon monoxide (CO)
 - Hydrogen chloride (HCl)
- **5.3 Advice for firefighters**
 - Protective equipment:
 - Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - Wear protective equipment. Keep unprotected persons away. Do not inhale vapours.
 - Ensure adequate ventilation.
- **6.2 Environmental precautions:**
 - Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
 - Absorb with liquid-binding material (sand, diatomite, universal binders) and disposal in suitable containers.
 - Send for recovery or disposal in suitable containers.
- **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 information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
 - Store in cool, dry place in tightly closed containers. Keep away from heat and direct sunlight.
 - Avoid contact with eyes and skin.
 - Information about protection against explosions and fires:
 - No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
 - **Storage**
 - Requirements to be met by storerooms and containers:
 - Store only in the original container. Prevent any penetration into the ground.
 - Information about storage in one common storage facility:
 - Keep away from strong oxidizing, alkalis and acidic materials.
 - Further information about storage conditions:
 - Store in the dark.

- Protect from the effects of light.
- Recommended storage temperature:
 - Box A: room temperature
 - Box B: -25 to -15 °C
- 7.3 Specific end use(s)**
 - No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters**
 - Components with limit values that require monitoring at the workplace:
 - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
 - Additional information:
 - The lists that were valid during the compilation were used as basis.
- 8.2 Exposure controls**
 - Personal protective equipment
 - General protective and hygienic measures
 - Wash hands during breaks and at the end of the work.
 - Breathing equipment:
 - Not required when used as intended.
 - Protection of hands:
 - Use gloves of stable material (i.e. nitril rubber).
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
 - Material of gloves
 - The selection of 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 cannot be calculated in advance and has therefore to be checked prior to the application.
 - Penetration time of glove material
 - The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:
 - Nitrile rubber, NBR
 - Eye protection:
 - Tightly sealed safety glasses.
 - Body protection:
 - Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties**
 - General Information

Physical state	fluid
Color	colorless
Odor	odorless
Odor threshold	not determined
pH (value)	not determined
Melting point/freezing point	not determined

Initial boiling point and boiling range	not determined
Flash point	not applicable
Inflammability (solid, gaseous)	not determined
Decomposition temperature	not determined
Self-inflammability	Product is not selfigniting.
Explosive properties	Product is not explosive.
Critical values for explosion Lower Upper	not determined not determined
Vapor pressure	not applicable
Density	not determined
Vapor density	not applicable
Evaporation rate	not applicable
Solubility in / Miscibility with Water	partly soluble
Partition coefficient: n-octanol/water	not determined
Viscosity (dynamic, kinematic)	not applicable
Solvent content Organic solvents	0.0 %

· 9.2 Other information

- No further relevant information available.

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:

None in case of intended use and storage in compliance with instructions.

SECTION 11: Toxicological information**· 11.1 Information on toxicological effects**

- Acute toxicity
Harmful if swallowed or if inhaled.
- Primary irritant effect:
- Skin corrosion/irritation
Causes skin irritation.
- Serious eye damage/irritation
Causes serious eye irritation.
- Respiratory or skin sensitisation

- May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
 - Germ cell mutagenicity
Based on available data, the classification criteria are not met.
 - Carcinogenicity
Based on available data, the classification criteria are not met.
 - Reproductive toxicity
Based on available data, the classification criteria are not met.
 - STOT-single exposure
May cause respiratory irritation.
 - STOT-repeated exposure
Based on available data, the classification criteria are not met.
 - Aspiration hazard
Based on available data, the classification criteria are not met.

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.
- **12.7 Other adverse effects**
 - Additional ecological information:
 - General notes:
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
 - Recommendation
Can be burnt with household garbage after consulting with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.

European waste catalogue

18 00 00	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE)
18 02 00	wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 05* HP 4	chemicals consisting of or containing hazardous substances Irritant - skin irritation and eye damage

HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 6	Acute Toxicity
HP 13	Sensitizing
HP 14	Ecotoxic

- Uncleaned packagings:
- Recommendation:
Dispose of packaging according to regulations on the disposal of packages. Non contaminated packages can be used for recycling.
Packages that cannot be cleaned are to be disposed of in the same manner as the product.
- Recommended cleaning agent:
Water, if necessary with cleaning agent.

SECTION 14: Transport information

- **14.1 UN-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:**
 - **Marine pollutant:** No
- **14.6 Special precautions for user**
Not applicable.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
Not applicable.
- Transport/Additional information:
Not dangerous according to the above specifications.

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 are listed
 - National regulations
 - **Water hazard class**
Water hazard class 2 (Self-assessment): hazardous for water.
- **15.2 Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- **Relevant phrases**
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the 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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **Disclaimer**

This information is based upon the present state of our knowledge.