Safety Data Sheet
acc. to OSHA HCS

Printing date 04/19/2022 *Version number 9* *Reviewed on 04/19/2022*

1 Identification

· **Product identifier**

· **Trade name:** ***004012- • EryCount pur • Ery-TIC***

· **SDS-ID (International):** *100036-2*
· **SDS Download URL:** *www.sds-id.com/*
· **Application of the substance / the mixture** *IVD (for in-vitro diagnostic use).*

· **Details of the supplier of the safety data sheet**
· **Manufacturer:**
Bioanalytic GmbH
Waldmatten 10-13 • 79224 Umkirch/Freiburg • Germany
· **Information department:**
Fon: +49 7665 5951 (de) • Fax: +49 7665 5683 (de/en) • safety@bioanalytic.de (de/en) •
Internet: www.bioanalytic.de > Download > Safety

· **Emergency telephone number:**
Fon: +49 7665 5951 (de) • Fax: +49 7665 5683 (de/en) • safety@bioanalytic.de (de/en)
Available during business time (www.bioanalytic.de > Imprint).
Or a poison center in your area.

2 Hazard(s) identification

· **Classification of the substance or mixture**



GHS08 Health hazard

Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.



GHS07

Acute Toxicity - Oral 4 H302 Harmful if swallowed.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS07 GHS08

· **Signal word** *Warning*

· **Hazard-determining components of labeling:**
mercury dichloride
· **Hazard statements**
H302 Harmful if swallowed.
H361 Suspected of damaging fertility or the unborn child.
· **Precautionary statements**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash thoroughly after handling.

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P270 *Do not eat, drink or smoke when using this product.*
P280 *Wear protective gloves/protective clothing/eye protection/face protection.*
P301+P312 *If swallowed: Call a poison center/doctor if you feel unwell.*
P330 *Rinse mouth.*
P308+P313 *IF exposed or concerned: Get medical advice/attention.*
P405 *Store locked up.*
P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 2
Fire = 0
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** *Not applicable.*
· **vPvB:** *Not applicable.*

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· **Dangerous components:**		
7757-82-6	*sodium sulphate*	*≤2.5%*
7487-94-7	*mercury dichloride*	*≥0.1-<1%*

4 First-aid measures

· **Description of 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.*
· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*

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

5 Fire-fighting measures

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

*
6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** *Not required.*
· **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.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
7757-82-6	*sodium sulphate*	*9.8 mg/m³*
7487-94-7	*mercury dichloride*	*0.1 mg/m³*

· **PAC-2:**		
7757-82-6	*sodium sulphate*	*110 mg/m³*
7487-94-7	*mercury dichloride*	*0.14 mg/m³*

· **PAC-3:**		
7757-82-6	*sodium sulphate*	*650 mg/m³*
7487-94-7	*mercury dichloride*	*38 mg/m³*

*
7 Handling and storage

· **Handling:**
· **Precautions for safe handling** *Open and handle receptacle with care.*
· **Information about protection against explosions and fires:** *Keep respiratory protective device available.*

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· **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:** *Keep receptacle tightly sealed.*
· **Storage class:** *12*

· **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.*

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
7757-82-6 sodium sulphate	
TLV	*Short-term value: NIC-0.2 mg/m³* *thoracic fraction of aerosol*
7487-94-7 mercury dichloride	
PEL	*Long-term value: 0.1 mg/m³* *as Hg; see OSHA standard interpretation memo*
REL	*Long-term value: 0.05* mg/m³* *Ceiling limit value: 0.1 mg/m³* *as Hg; *Vapor; Skin*
TLV	*Long-term value: 0.025 mg/m³* *as Hg; A4; Skin; BEI*

· **Ingredients with biological limit values:**	
7487-94-7 mercury dichloride	
BEI	*20 µg/g creatinine* *Medium: urine* *Time: prior to shift* *Parameter: Mercury*

· **Additional information:** *The lists that were valid during the creation were used as basis.*

· **Exposure controls**
· **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.
Store protective clothing separately.
· **Breathing equipment:** *Not required.*
· **Protection of hands:**



Protective gloves

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374. The recommendations apply only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and

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under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

· **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**
Glove material: Nitrile rubber
Glove thickness: 0.11 mm
Break through time: > 480 min

· **As protection from splashes gloves made of the following materials are suitable:**
Glove material: Nitrile rubber
Glove thickness: 0.11 mm
Break through time: > 480 min

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	*Fluid*
Color:	*Colorless*
· **Odor:**	*Odorless*
· **Odor threshold:**	*Not determined.*
· **pH-value:**	*Not determined.*
· **Change in condition**	
Melting point/Melting range:	*0 °C (32 °F)*
Boiling point/Boiling range:	*100 °C (212 °F)*
· **Flash point:**	*Not applicable.*
· **Flammability (solid, gaseous):**	*Not applicable.*
· **Decomposition temperature:**	*Not determined.*
· **Auto igniting:**	*Product is not selfigniting.*
· **Danger of explosion:**	*Product does not present an explosion hazard.*
· **Explosion limits:**	
Lower:	*Not determined.*
Upper:	*Not determined.*
· **Vapor pressure at 20 °C (68 °F):**	*23 hPa (17.3 mm Hg)*
· **Density at 20 °C (68 °F):**	*1.02 g/cm³ (8.5119 lbs/gal)*
· **Relative density**	*Not determined.*
· **Vapor density**	*Not determined.*
· **Evaporation rate**	*Not determined.*

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· **Solubility in / Miscibility with Water:**	*Fully miscible.*
· **Partition coefficient (n-octanol/water):**	*Not determined.*
· **Viscosity:**	
Dynamic:	*Not determined.*
Kinematic:	*Not determined.*
· **Solvent content:**	
Water:	*96.8 %*
VOC content:	*0.00 %*
· **Other information**	*No further relevant information available.*

10 Stability and reactivity

· **Reactivity** *No further relevant information available.*
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
· **Possibility of hazardous reactions** *No dangerous reactions known.*
· **Conditions to avoid** *No further relevant information available.*
· **Incompatible materials:** *No further relevant information available.*
· **Hazardous decomposition products:** *No dangerous decomposition products known.*

*
11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
7487-94-7 mercury dichloride		
Oral	*LD50*	*1 mg/kg (rat)*
Dermal	*LD50*	*41 mg/kg (rat)*

· **Primary irritant effect:**
· **on the skin:** *No irritant effect.*
· **on the eye:** *No irritating effect.*
· **Sensitization:** *No sensitizing effects known.*
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
7487-94-7	*mercury dichloride*	*3*

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

*
12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** *No further relevant information available.*
· **Persistence and degradability** *No further relevant information available.*
· **Behavior in environmental systems:**
· **Bioaccumulative potential** *No further relevant information available.*
· **Mobility in soil** *No further relevant information available.*
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
· **Results of PBT and vPvB assessment**
· **PBT:** *Not applicable.*
· **vPvB:** *Not applicable.*
· **Other adverse effects** *No further relevant information available.*

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
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*

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· **Special precautions for user**	*Not applicable.*
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	*Not applicable.*
· **UN "Model Regulation":**	*Void*

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
· **Sara**

· **Section 355 (extremely hazardous substances):**

7487-94-7	*mercury dichloride*

· **Section 313 (Specific toxic chemical listings):**

7487-94-7	*mercury dichloride*

· **TSCA (Toxic Substances Control Act):**
All components have the value ACTIVE.

· **Hazardous Air Pollutants**

7487-94-7	*mercury dichloride*

· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

7487-94-7	*mercury dichloride*

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

7487-94-7	*mercury dichloride*	*C*

· **TLV (Threshold Limit Value)**

7487-94-7	*mercury dichloride*	*A4*

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).

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· **Hazard pictograms**



GHS07 GHS08

· **Signal word** *Warning*

· **Hazard-determining components of labeling:**
mercury dichloride
· **Hazard statements**
H302 Harmful if swallowed.
H361 Suspected of damaging fertility or the unborn child.
· **Precautionary statements**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
P330 Rinse mouth.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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 SDS:** *Product safety department*
· **Contact:** *eMail: safety@bioanalytic.de (de/en)*
· **Date of preparation / last revision** *04/19/2022 / 8*

· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
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
NIOSH: National Institute for Occupational Safety

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OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Acute Toxicity - Oral 4: Acute toxicity – Category 4
Toxic to Reproduction 2: Reproductive toxicity – Category 2

· *** Data compared to the previous version altered.**