

OSHA HazCom Standard 29 CFR 1910.2100(g), Rev. 2012 and GHS Rev 03

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

1.1 Product identifier

Trade name EASY⁺ buffer

Product number EA010-...

Product description Laboratory chemicals

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

General use

For research use only

Uses advised against

Not intended for human or animal diagnostic or therapeutic uses

1.3 Details of the supplier of the safety data sheet (Manufacturer/Supplier)

Company name Biontex Laboratories GmbH Street/POB-No. Landsberger Str. 234 80687 München, GERMANY

Dept. responsible for information

Telefon 01149 89-32479950 Telefax 01149 89-32479952

E-mail contact@biontex.com WWW www.biontex.com

1.4 Emergency telephone number

Centre of detoxification

USA or Canada +1 800-424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Globally Harmonized System (GHS)

Not classified as hazardous.

Skin corrosion/irritation

Not classified

Eye demage/irritagion

Not classified

2.2 Label elements

Classification according to Globally Harmonized System (GHS)
None

2.2.1 GHS US labeling

Signal word

Not applicable

Pictogram / Hazard symbol

Not applicable

Health hazard not hazardous
Physical hazard not hazardous
Environmental hazards not hazardous

Hazard statements

None

Hazard-determining components of labeling

None

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Precautionary statements

→ Chapter 4, 6, 7, 13

Classification system

NFPA/HMIS Definations: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

NFPA/HMIS ratings (scale 0 - 4)



OSHA Hazard Overview (Criteria according to 29CFR1910.1200) Not applicable

2.3 Other hazards / Hazards not otherwise classified

None

Based on present knowledge and when handled correctly, the product poses no danger for humans and the environment.

The usual minimum standards for protective measures in the chemical industry must be observed.

Results of PBT and vPVB assessment → Chapter 12

3. <u>COMPOSITION / INFORMATION ON INGREDIENTS</u>

3.1 Substances

This product is a mixture.

3.1.1 Chemical identity and characterisation:

 $\begin{array}{cccc} \text{Name} & \text{CAS-No.} & \text{GHS classification} \\ \text{EASY}^+\text{-buffer} & \text{not applicable} & \text{not applicable} \end{array}$

3.2 Mixtures

Classification according to Globally
Harmonized System (GHS)
Chemical identity and characterisation
Hazardous ingredients
UN-No.

not hazardous/no dangerous components
inorganic salts
mixture with harmless/nonhazardous ingredients
not applicable
not applicable

3.3 Additional information

Ingredients are not hazardous or their concentrations do not exceed the limit specified according to 29 CFR 1910.1200 Hazard Communication Standard (USA) and Regulation 1907/2006/EC and Directive 2001/59/EC (EU).

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information

Remove contaminated clothing immediately. Contaminated clothing should be laundered before reusing. Seek medical attention immediately if symptoms develop.

Inhalation

Remove victim to fresh air, if necessary seek medical advice. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

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Skin contact

Wash skin with plenty of water thoroughly. Remove contaminated clothing.

In case of skin reactions, consult a physician.

Eye contact

Remove contact linses. Immediately flush eyes with plenty of flowing water for at least 20 minutes, also under the eyelids. If necessary seek medical advice.

Swallowing / Ingestion

Never give anything by mouth to an unconscious person.

Rinse mouth with water thoroughly. If malaise develops, call a physician.

Do not induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant informations available.

4.3 Indication of any immediate medical attention and special treatment needed

No information available for special treatment. Treat symptomatically.

After first aid, get appropriate in-plant, paramedic, or community medical support if exposure symptoms persist.

4.4 Special precautions/procedures

None

4.5 Notes to physician

Treat symptomatically

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Carbon dioxide (CO₂), dry-chemical or foam fire extinguisher, water

spray

Unsuitable Water jet, otherwise there is a risk of spread of fire

5.2 Special hazards arising from the substance or mixture

Dangerous decomposition is not anticipated, do not breath fumes of fire.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Use fine water spray to cool endangered containers (from a safe distance).

Suppress gases/vapours/mists with water spray jet.

Pay attention to backdraft.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment / personal protection measures.

Keep unprotected persons away / evacuate personnel to safe areas.

Ensure adequate ventilation.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

Prevent product from entering drains/surface water/groundwater.

Additional special actions to limit damages are not necessary.

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6.3 Methods and material for containment and cleaning up

Dilute spilled liquids with plenty of water and adsorb. Sweep or vacuum (if powder) or soak up with inert absorbent material (if liquid), then replace into a suitable clean, dry, closed container and label for disposal.

→ Chapter 7→ Chapter 8

Never return spills in original containers for reuse.

6.4 Reference to other sections

Information on safe handling
Information on personal protection

equipment
Information for disposal → Chapter 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling according to Guidelines for Laboratories.

Advices on safe handling

Usual precautions when \bar{h} and ling chemicals \rightarrow Chapter 8.

Handle with care and avoid unnecessary, prolonged or repeated exposure. Avoid inhalation. Avoid contact with eyes, skin and clothing. Use protective equipment to minimize exposure.

Precautions against fire and explosion

Autoignition does not occur. no special precautions are necessary

Measures to prevent aerosol and dust generation

No special precautions are necessary.

Measures to protect the environment

No special precautions are necessary.

General Hygiene measures

No special precautions are necessary.

7.2 Conditions for safe storage, including any incompatibilities Storage conditions

This item is supplied uncooled and should be stored at **35,6°F and 46,4°F** (2°C - 8°C) immediately after receipt. Do not freeze. Keep container tightly closed. Use original vessel.

Requirements for storerooms and containers/hints on joint storage

There is no restriction and/or requirements for storage with other materials.

Storage class/storage in one common storage facility

10-13 Other liquids and solids

7.3 Specific end uses(s)

Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific application.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameter

None

8.1.1 Occupational exposure limit / biological limit

The product does not contain any relevant quantities of materials with critical value that have to be monitored.

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8.1.2 Control Banding (e.g. ILO, OSHA)

None

8.2 Exposure controls

Exposure limitation and controlling are workplace related and must be regulated by the user.

8.2.1 Appropriate technical safety devices

Technical measures and appropriate working operations are just as important as the use of personal protective equipment. Provide good ventilation and/or an exhaust system in the work area. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

8.2.2 Personal protective equipment

Personal protective equipment should be selected specifically for the workplace.

Eye / Face protection

Tightly sealed goggles. Ensure that an eyewash station is proximal to the workstation.

Skin / Body protection

Wear protactive clothes. Ensure that safety showers are proximal to the workstation.

Hand protection

Protective gloves - the material has to be impermeable and resistant to the product. Break through time, permeation and degradation has to be found out by the manufacturer of the protective gloves and has to be observed.

Breathing protection

Not required

General protection and hygiene measures

The usual precautionary measures are to be adhered to when handling chemicals.

Remove contaminated clothing immediately and wash it before re-use.

After contact clean skin with soap and water or use appropriate detergent.

Wash hands before breaks and after work.

Keep out of reach of children.

Keep away from food, drink and animal feed.

Do not eat, drink or smoke during work/in work areas.

8.2.3 Environmental exposure controls

Information on environmental exposure → Chapter 6, 7 und 12

8.3 Engineering measures

Always provide fresh air.

Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance/physical state liquid

Colour/Odour colorless/mild characteristic odour

no data available pH value no data available Evaporation rate no data available Melting point/range Boiling point/range at ~ 212°F (100°C) Flash point no data available Flammability (solid, gaseous) no data available no data available Ignition temperature (solid/gaseous) Autoignition temperature no data available Oxidising properties no data available

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no data available Vapour pressure Vapour density no data available Relative density no data available **Bulk density** no data available Water solubility 68°F (20°C) in g/l completely no data available Partition coefficient n-Octanol/Wasser Viscosity, kinematic no data available Viscosity, dynamic no data available Dust explosion hazard no data available Explosion properties no data available Explosion limits (lower/upper) no data available Substance groups relevant properties no data available Surface tension no data available Solvent content (organic/water) no data available Solids content none Decomposition no data available

9.2 Other information

No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Product is stable under normal storage conditions and if it used according to specifications.

10.3 Possibility of hazardous ractions

No dangerous reactions known under conditions of normal use, handling and storage.

10.4 Conditions to avoid

No dangerous reactions known under conditions of normal use, handling and storage.

10.5 Incompatible materials

Unknown

10.6 Thermal decomposition products

No decomposition known if used according to specifications.

10.7 Hazardous decomposition products

No dangerous decomposition products known.

10.8 Polymerisation

Hazardous polymerisation does not occur.

10.9 Incompatible materials

No further relevant information available.

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TOXICOLOGICAL INFORMATION 11.

11.1 Information to toxicological effects

Acute toxicity (LD_{50}/LC_{50}) unknown Eye irritation may cause irritation/allergic sensitization Skin irritation may cause irritation/allergic sensitization Aspiration may cause irritation/allergic sensitization Ingestion may cause irritation/allergic sensitization

Germ cell mutagenicity unknown Mutagenic effects/Reproductive toxicity unknown Carcinogenicity unknown

EPA none of the ingredients are listed TLV (established by ACGIH) none of the ingredients are listed none of the ingredients are listed NIOSH none of the ingredients are listed NTP **OSHA** none of the ingredients are listed

no information available

IARC not classified Sensitisation unknown no known effects under normal use conditions

Target organ effects (single or repeated

exposure)

Chronic effects from short/long-term

exposure

Numerical measures of toxicity no information available no information available Assessment of other acute effects

12. ECOLOGICAL INFORMATION

12.1 Toxicity / Ecotoxicity

No effects or hazards known.

12.2 Aquatic toxicity

No further relevant information available.

12.3 Persistence and degradability

No effects or hazards known.

12.4 Bioaccumulative potential

No effects or hazards known.

12.5 Mobility in soil

No effects or hazards known.

12.6 Results of PBT and vPvB assessment

The substance does not meet the criteria for a classification. **PBT** not applicable vPvB not applicable

12.7 Other adverse effects

No data available.

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13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of in accordance with local regulations and national laws and provisions.

13.2 Contaminated/appropriate packaging

Dispose of empty packs via local recycling or waste disposal routes, if necessary, clean them beforehand.

13.3 Additional information

Prevent discharge of the liquid into the sewage system, cesspit and cellars.

Vapours can form potentially explosive atmosphere.

Waste disposal must be in accordance with appropriate Federal, State and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

14. TRANSPORT INFORMATION

14.1 UN number

None

14.2 UN proper shipping name

None

14.3 Transport hazard class(es)

None

Is not subject to current regulations for transportation of dangerous goods (ADR/RID, IMO, ADN, IMDG/EmS, IATA/ICAO, DOT, MERCOSUR).

The product is not hazardous to ship.

14.4 Packing group

None

14.5 Enviromental hazards

None

14.6 Special precautions for user

Not applicable → Chapter 6 - 8

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. REGULATORY INFORMATION

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

U.S. Federal Regulations

Respectively in the latest version incl. all amendments, additions and corrections.

SARA/CERCLA not listed
TSCA not listed

Clean Air Act, Section 112 Hazardous Air not contains HAPs

Pollutants (HAPs)

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U.S. State Regulations

Compliance with applicable agreements, regulations and laws of the respective country. California Propostion 65 does not contain chemicals listed under Proposition 65

Other relevant regulations, restrictions and prohibition regulations

None

Inventory status

WHMIS hazard class (Canada) not listed NDSL/DSL (Canada) not listed AICS (Australia) not listed ENCS/PACS (Japan) not listed IECSC (China) not listed KECI (Korea) not listed NECI/TCSCA (Taiwan) not listed NZIoC (New Zealand) not listed PICCS (Phillippines) not listed

15.2 Chemical safety assessment

Not been carried out.

OTHER INFORMATION

16.1 Issuing institution

Department issuing SDS

Department of Health, Safety and Environmental Protection

Contact

AICS

Dr. Roland Klösel

16.2 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) ADN

Accord européen relatif au transport international des marchandises dangereuses

par voies de navigation intérieures (European Agreement concerning the

International Carriage of Dangerous Goods by Inland Waterways)

ACGIH American Conference of Governmental Industrial Hygienists

Australian Inventory of Chemical Substances

CAS Chemical Abstracts Service (Division of the American Chemical Society) **CERCLA** Comprehensive Environmental Response, Compensation, and Liability Act

DOT Department of Transportation

(N)DSL Canadian (Non-)Domestic Substance List

EmS Emergency Schedule

EPA Environmental Protection Agency

ENCS Japanese Existing and New Chemical Substances

GHS Globally Harmonized System of Classification and Labelling of Chemicals

Hazardous Materials Identification System **HMIS IARC** International Agency for Research on Cancer IATA International Air Transport Association

Intermediate Bulk Container **IBC**

International Civil Aviation Organization **ICAO**

IECSC Existing Chemical Substances Produced or Imported in China

International Labour Organization ILO

International Maritime Code for Dangerous Goods **IMDG**

International Maritime Organization IMO Korean Existing Chemicals Inventory **KFCI**

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 LC_{50} / LD_{50} Lethal concentration, 50 percent / Lethal dose, 50 percent

MARPOL International Convention for the Prevention of Marine Pollution from Ships

MERCOSUR Mercado Común del Sur

NECI Taiwan's National Existing Chemical Inventory
NIOSH National Institute for Occupational Safety and Health

NZIOC New Zealand Inventory of Chemicals NFPA National Fire Protection Association NTP National Toxicology Programm

OSHA Occupational Safety & Health Adminstration
PACS Japanese Priority Assessment Chemical Substances

PBT Persistent, Bioaccumulative, Toxic

PICCS Philippine Inventory of Chemicals and Chemical Substances

RID Règlement international concernant le transport des marchandises dangereuses

par chemin de fer (Regulations concerning the International Transport of

dangerous goods by rail)

SARA The Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value

TSCA Toxic Substances Control Act

TCSCA Toxic Chemical Substances Control Act in Taiwan

UN No. United Nation Numer

vPvB Very persistent, very bioaccumulative

WHMIS Workplace Hazardous Materials Information System

16.3 Further information

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. However, Biontex does not warrant the accuracy of this information.

All materials and mixtures may present unknown hazards and should be used with caution. When necessary or appropriate, independent opinions regarding the risk of handling or exposure should be obtained from trained professionals.

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