Safety data sheet

According to 1907/2006/EC, Article 31

Print date: 14.05.2018
Updated: 14.05.2018
Version: 4

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

– Trade name: ***EXTRACTME DNA CLEAN UP KIT***

– Article number: *EM07.1*

– Components: *CB Buffer, CW Buffer, Elution Buffer, Loading Buffer*

1.2 Relevant identified uses of the substance or mixture and uses advised against: *No data available.*

– Application of the substance / the preparation: *Laboratory reagents.*

1.3 Details of the supplier of the safety data sheet

– Manufacturer/supplier:

BLIRT S.A.
Trzy Lipy 3/1.38
80-172 Gdańsk
Poland
orders@blirt.eu
Tel. +48 58 739 61 50

1.4 Emergency telephone number:

+48 58 739 61 50 (Inside normal business hours)
112

Safety data sheet

According to 1907/2006/EC, Article 31

Print date: 14.05.2018
Updated: 14.05.2018
Version: 4

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

– Trade name: ***CB Buffer***

– Hazardous components: *Guanidine hydrochloride, 2-propanol*

– CAS number: *50-01-1 (Guanidine hydrochloride), 67-63-0 (2-propanol)*

– EC number: *200-002-3(Guanidine hydrochloride), 200-661-7 (2-propanol)*

1.2 Relevant identified uses of the substance or mixture and uses advised against: *No data available.*

– Application of the substance / the preparation: *Laboratory reagents.*

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2 Hazards identification

2.1 Classification of the substance or mixture

– Classification according to Regulation (EC) No 1272/2008

GHS02

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness

2.2 Label elements

– Labelling according to Regulation (EC) No 1272/2008

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

– Hazard pictograms

– Signal word: *Danger*

– Hazard-determining components of labeling: *Guanidine hydrochloride, 2-propanol*

– Hazard statements:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H225 Highly flammable liquid and vapour.

– Precautionary statement(s):

Prevention:

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Response:

P301+312 P330 IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell. Rinse mouth.

2.3 Other hazards

Not applicable.

3 Composition/information on ingredients

3.2 Chemical characterization: *Mixture*

Dangerous ingredients:		
CAS: *50-01-1* EINECS: *200-002-3*	*Guanidine hydrochloride* *Acute Tox. 4, H302, Acute Tox. H332, Skin Irrit. 2, H315; Eye Irrit. 2, H319;*	*30-40 %*
CAS: *67-63-0* EINECS: *200-661-7*	*2-propanol* *Flam. Liq. H225; Eye Irrit. 2 H319, STOT SE 3 H336*	*20-30%*

4 First aid measures

4.1 Description of first aid measures

– After inhalation: *Supply fresh air, consult a doctor immediately.*

– After skin contact: *Wash with water and soap. If skin irritation continues, consult a doctor.*

– After eye contact: *Rinse opened eye for several minutes under running water. Call a doctor immediately.*

– After swallowing: *Make victim drink water (maximum of 2 drinking glasses), do not induce vomiting. Call for a doctor immediately.*

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.

5 Firefighting measures

5.1 Extinguishing media

– Suitable extinguishing agents: *Water spray, CO_2, foam, powder; fight larger fires with spray or alcohol resistant foam.*

5.2 Special hazards arising from the substance or mixture

– Combustible

– Forms explosive mixtures with air on intense heating. Vapours are heavier than air and may spread along floors. In case of fire, the following can be released: *Nitrogen oxides (NO_x), carbon oxides (CO, CO_2), hydrogen chloride (HCl).*

5.3 Advise 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.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Do not inhale, avoid mixture contact, ensure adequate ventilation. Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources.

6.2 Environmental precautions: *Do not allow to enter sewers/surface or ground water.*

6.3 Methods and material for containment and cleaning up: *Pick up mechanically. Clean up affected area. Dispose of material collected according to regulations. Ensure adequate ventilation.*

6.4 Reference to other sections
See section 7 for information on safe handling.
See section 8 for information on personal equipment.
See section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handing: *Ensure adequate ventilation. Keep receptacles tightly sealed.*

7.2 Conditions for safe storage, including any incompatibilities

– **Requirements to be met by storerooms and receptacles:** *Store in cool location.*

– **Information about storage in one common storage facility:** *Away from sources of ignition and heat.*

– **Further information about storage conditions:** *Keep container sealed. Store in cool, dry conditions in well sealed receptacles. Store in a well ventilated place.*

– **Recommended storage temperature:** ***15-25°C***

– **Storage class:** *3*

7.3 Specific end use(s): *No further relevant information available.*

8 Exposure controls/personal protection

8.1 Control parameters

– **Ingredients with limit values that require monitoring at the workplace:** *Not required.*

– **Additional information:** *The lists valid during the making were used as basis.*

8.2 Exposure controls

– **Personal protective equipment:**

• ***General protective and hygienic measures:*** *Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.*

• ***Respiratory protection:*** *In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Filter P2.*

• ***Protection of hands:***

Protective gloves – 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 suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.*

• ***Penetration time of glove material:*** *The exact break through time has to be observed.*

• ***For the permanent contact gloves made of the following materials are suitable:*** *Nitrile rubber, NBR. Recommended thickness of the material ≥0,11 mm. Value for the permeation: Level ≥480 min.*

• ***Eye protection:*** *Safety glasses.*

• ***Body protection:*** *Protective work clothing. Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.*

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

– **Appearance:**

Form: *Liquid*

9.2 Other information: *No further relevant information available.*

10 Stability and reactivity

10.1 Reactivity: *No data available.*

10.2 Chemical stability: *No data available.*

– Thermal decomposition/conditions to be avoided: *Moisture.*

10.3 Possibility of hazardous reaction: *No dangerous reactions known.*

10.4 Conditions to avoid: *No further relevant information available.*

10.5 Incompatible materials: *Strong oxidants.*

10.6 Hazardous decomposition product: *See chapter 5.*

11 Toxicological information

11.1 Information on toxicological effects

– Acute toxity:

- *Oral/Ingestion:* ATE_{mix} *=1308*
- *Inhalation/Respiratory:* ATE_{mix} *>20*

– Primary irritant effect:

- **On the skin:** *Irritant to skin and mucous membranes.*
- **On the eye:** *Irritant effect.*

– Sensitization: *No sensitizing effects known.*

12 Ecological information

12.1 Toxicity: *No data 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: *Not applicable.*

12.6 Other adverse effects: *No further relevant information available*

– General notes: *Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*

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. Packaging that may not be cleansed are to be disposed of in the same manner as the product.*

– Recommended cleansing agents: *Water, if necessary together with cleansing agents.*

14 Transport information

14.1 UN-Number:

- **ADR, ADN, IMDG, IATA:** *Not dangerous goods/not applicable.*

14.2 UN proper shipping name:

- **ADR, ADN, IMDG, IATA:** *Not dangerous goods/not applicable.*

14.3 Transport hazard class(es):

- **ADR, ADN, IMDG, IATA:** *Not dangerous goods/not applicable.*
- **Class:** *Not dangerous goods/not applicable.*

14.4 Packing group:

- **ADR, IMDG, IATA:** *Not dangerous goods/not applicable.*

14.5 Environmental hazards:

- **Marine pollutant:** *No.*

14.6 Special precautions for users: *Not applicable.*

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: *Not applicable.*

– Transport/additional information: *Not dangerous according to the above specifications.*

– UN „Model Regulation”: *Not applicable.*

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: *Not applicable.*

15.2 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.

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

– Trade name: ***CW Buffer, Elution Buffer, Loading Buffer***

– Hazardous components:*, EDTA (Loading Buffer)*

– CAS number: *6381-92-6 (EDTA) (Loading Buffer)*

– EC number: *205-358-3 (EDTA) (Loading Buffer)*

1.2 Relevant identified uses of the substance or mixture and uses advised against: *No data available.*

– Application of the substance / the preparation: *Laboratory reagents.*

1.3 Details of the supplier of the safety data sheet

– Manufacturer/supplier:

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1.4 Emergency telephone number:

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112

2. Hazards identification

2.1 Classification of the substance or mixture

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

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

– Labelling according to Regulation (EC) No 1272/2008

The mixture is not classified and labelled according to the CLP regulation.

– Hazard pictograms: *Not applicable.*

– Signal word: *Not applicable.*

– Hazard-determining components of labelling: *Not applicable.*

– Hazard statements: *Not applicable.*

– Precautionary statement(s): *Not applicable.*

2.3 Other hazards

Not applicable.

3. Composition/information on ingredients

3.2 Chemical characterization: *Mixture.*

Dangerous ingredients (Loading Buffer):		
CAS: *6381-92-6* **EINECS:** *205-358-3*	*EDTA* Acute Tox. 4, H332; STOT RE 2, H373	*1-10%*

4. First aid measures

4.1 Description of first aid measures

– General information: *No special measures required.*

– After inhalation: *Supply fresh air.*

– After skin contact: *Wash with water. If skin irritation continues, consult a doctor.*

– After eye contact: *Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*

– After swallowing: *Rinse out mouth. If symptoms persist consult doctor.*

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.

5. Firefighting measures

5.1 Extinguishing media

– Suitable extinguishing agents: *Water, CO_2, foam, powder. 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 fallowing can be released: *No further relevant information available.*

5.3 Advise 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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: *Avoid mixture contact.*

6.2 Environmental precautions: *Do not allow to enter sewers/surface or ground water.*

6.3 Methods and material for containment and cleaning up: *Pick up mechanically. Clean up affected area. Dispose of the material collected according to regulations.*

6.4 Reference to other sections

See section 7 for information for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

7. Handling and storage

7.1 Precautions for safe handing: *No special precautions are necessary if used correctly.*

7.2 Conditions for safe storage, including any incompatibilities

– **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 container sealed.*

– Recommended storage temperature: ***15-25°C***

– Storage class: *10-13*

7.3 Specific end use(s): *No further relevant information available.*

8. Exposure controls/personal protection

8.1 Control parameters

– Ingredients with limit values that require monitoring at the workplace: *Not required.*

– Additional information: *The lists valid during the making were used as basis.*

8.2 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.*

• ***Respiratory protection:*** *No further relevant information available.*

• ***Protection of hands:***

Protective gloves – 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 suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.*

• ***Penetration time of glove material:*** *The exact break through time has to be observed.*

• ***For the permanent contact gloves made of the following materials are suitable:*** *Nitrile rubber, NBR. Recommended thickness of the material ≥0,11 mm. Value for the permeation: Level ≥480 min.*

• ***Eye protection:*** *Safety glasses.*

- ***Body protection:*** *Protective work clothing. Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.*

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

– Appearance:

Form: *Liquid*

9.2 Other information: *No further relevant information available.*

10. Stability and reactivity

10.1 Reactivity: *No data available.*

10.2 Chemical stability: *No data available.*

– Thermal decomposition/conditions to be avoided: *No decomposition if used according to specifications.*

10.3 Possibility of hazardous reaction: *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 product: *See chapter 5.*

11. Toxicological information

11.1 Information on toxicological effects

– Acute toxity:

- *Inhalation/Respiratory: ATE_{mix}>20 (Loading Buffer)*

– Primary irritant effect:

- **On the skin:** *No data available.*
- **On the eye:** *No data available.*

– Sensitization: *No sensitizing effects known.*

12. Ecological information

12.1 Toxicity: *No data 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: *Not applicable.*

12.6 Other adverse effects: *No further relevant information available.*

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.*

– Recommended cleansing agents: *Water, if necessary together with cleansing agents.*

14. Transport information

14.1 UN-Number:

- **ADR, ADN, IMDG, IATA:** *Not dangerous goods/not applicable.*

14.2 UN proper shipping name:

- **ADR, ADN, IMDG, IATA:** *Not dangerous goods/not applicable.*

14.3 Transport hazard class(es):

- **ADR, ADN, IMDG, IATA:** *Not dangerous goods/not applicable.*
- **Class:** *Not dangerous goods/not applicable.*

14.4 Packing group:

- **ADR, IMDG, IATA:** *Not dangerous goods/not applicable.*

14.5 Environmental hazards:

- **Marine pollutant:** *No.*

14.6 Special precautions for users: *Not applicable*.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: *Not applicable.*

– Transport/additional information: *Not dangerous according to the above specifications.*

– UN „Model Regulation”: *Not applicable.*

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: *Not applicable.*

15.2 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.