

Safety data sheet

According to 1907/2006/EC, Article 31

Print date: 07.05.2020

Updated: 07.05.2020

Version: 1



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

1.1 Product identifier

– Trade name: EXTRACTME VIRAL RNA KIT

– Article number: EM39

– Components: vRLys Buffer, vRW Buffer, vREB

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

reach@blirt.eu

Tel. +48 58 739 61 50

1.4 Emergency telephone number:

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

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

1.1 Product identifier

– Trade name: vRLys Buffer

– Hazardous components: Guanidine thiocyanate, N-Lauroylsarcosine sodium

– CAS number: 593-84-0 (Guanidine thiocyanate), 137-16-6 (N-Lauroylsarcosine sodium)

– EC number: 209-812-1 (Guanidine thiocyanate), 205-281-5 (N-Lauroylsarcosine sodium)

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

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2. Hazards identification

2.1 Classification of the substance or mixture

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



GHS06

Acute Tox. 3 H331 Toxic if inhaled.

Acute Tox. 4 H302 Harmful if swallowed.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effect.

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 thiocyanate, N-Lauroylsarcosine sodium*

– Hazard statements:

H302 Harmful if swallowed.

H331 Toxic if inhaled.

H412 Harmful to aquatic life with long lasting effects.

– Precautionary statement(s):

Prevention:

P261 Avoid breathing dust/fumes/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

Response:

P304+P340 P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.

- Additional information

EUH032 Contact with acids liberates very toxic gas.

2.3 Other hazards

Not applicable.

3. Composition/information on ingredients

3.2 Chemical characterization: *Mixture*

<i>Dangerous ingredients:</i>		
CAS: 593-84-0 EINECS: 209-812-1	<i>Guanidine thiocyanate</i> <i>Acute Tox. 4, H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Aquatic Chronic 3 H412</i>	40-50 %
CAS: 137-16-6 EINECS: 205-281-5	<i>N-Lauroylsarcosine sodium</i> <i>Acute Tox. 1 H330, Skin Irrit 2 H315, Eye Dam. 1 H318, Skin Sens. 1 H317</i>	0-10%

4. First aid measures

4.1 Description of first aid measures

– **After inhalation:** *Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult a doctor immediately.*

– **After skin contact:** *Wash with soap and plenty of water. Immediately remove any clothing soiled by the product.*

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

– **After swallowing:** *Make victim drink water (maximum of 2 drinking glasses). Consult a doctor immediately.*

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in 11.

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, CO₂ or powder. Fight larger fires with water spray 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. In case of fire, the following can be released:** *Nitrogen oxides (NO_x), carbon oxides (CO, CO₂), sulfur oxides (SO₂, SO₃...)*

5.3 Advise for firefighters

– **Protective equipment:** *Wear self-contained respiratory protective device.*

Additional information

Dispose of fire debris and contaminated firefighting 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.*

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. Dispose of the material collected according to regulations. Ensure adequate ventilation. Clean up affected area.*

6.4 References to others sections

See section 7 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 handling: *Ensure good ventilation at the workplace.*

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:** *Do not store with acids.*

- 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. Avoid contact with the eyes and skin. Change contaminated clothing.*
- **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 P3.*
- **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 $\geq 0,11$ 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: *Light/strong heating.*

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

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

10.5 Incompatible materials: *Acids.*

10.6 Hazardous decomposition product: *See chapter 5.*

11. Toxicological information

11.1 Information on toxicological effects

– Acute toxicity:

• Oral/Ingestion: $ATE_{mix} > 1084$

• Inhalation/Respiratory: $ATE_{mix} = 7$

• Dermal/Skin: $ATE_{mix} > 2000$

– 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.*

General notes: *Hazardous for water. Do not allow to enter waters, waste water or soil.*

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 dangerous goods/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.

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

1.1 Product identifier

– Trade name: vREB (viral RNA Elution Buffer), vRW Buffer

– Hazardous components: *none*

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

No data available.

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

1.3 Details of the supplier of the safety data sheet

– Manufacturer/supplier:

BLIRT S.A.

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1.4 Emergency telephone number:

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

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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*

– Other information: *Not significant.*

4. First aid measures

4.1 Description of first aid measures

– General information: *No special measures required.*

– After inhalation: *Supply fresh air. In case of complaints, consult a doctor.*

– 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. If symptoms persist, consult a doctor.*

– After swallowing: *Rinse out mouth. If symptoms persist consult a 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, CO₂, 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 following 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 firefighting 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 References to others sections

See section 7 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 handling:** *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 $\geq 0,11$ 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

– 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:

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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 dangerous goods/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.