

Safety data sheet

According to 1907/2006/EC
with subsequent amendments.

Print date: 26.11.2020
Updated: 26.11.2020
Version: 1.2020



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

1.1 Product identifier

- Trade name: TRANSCRIPTME LYO Reverse Transcriptase
- Article number: RT32L
- Components: TRANSCRIPTME LYO Reverse Transcriptase, 10x RT Reaction Buffer, RT Resuspension Buffer, 0.1 M DTT

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

- Relevant identified uses: *Laboratory reagents.*
- Uses **advised against**: *No further relevant information available.*

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 (8.00 am.- 4.00 pm.)

112 (emergency telephone)

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SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

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

The mixture is not classified as hazardous.

2.2 Label elements

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

– Hazard pictograms: *Not applicable.*

– Signal word: *Not applicable.*

– Hazard statements: *Not applicable.*

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

2.3 Other hazards

The product contains no substance meet the criteria for PBT or vPvB.

SECTION 3. Composition/information on ingredients

3.1 Substances: *Not applicable.*

3.2 Mixtures: *The product contains substances which are considered to be hazardous to health.*

SECTION 4. First aid measures

4.1 Description of first aid measures

– **General information:** *No special measures required.*

– **After inhalation:** *Supply fresh air. Consult doctor in case of complaints.*

– **After skin contact:** *Wash with plenty of 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. Avoid a high water jet because of the risk of damage to the cornea.

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

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

– **Inhalation exposure:** *No further relevant information available.*

– **Dermal exposure:** *No further relevant information available.*

– **Oral exposure:** *No further relevant information available.*

4.3 Indication of any immediate medical attention and special treatment needed:

The treatment shall be determined by the doctor, after the victim's health has been assessed.

SECTION 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:**

Depending on the size of the fire, wear gas-tight protective clothing and respiratory devices with independent air source, safety shoes, helmets, protective suits, etc. Combat the fire from a safe position.

Additional information

Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

SECTION 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 8. for information on personal equipment.
See SECTION 13. for disposal information.

SECTION 7. Handling and storage

- 7.1 **Precautions for safe handling:**
Keep away from high temperature sources and ignition sources. When working with the mixture, avoid contact with skin and eyes. Ensure adequate ventilation.
Do not inhale product vapors or aerosols. Do not eat, drink or smoke while in use. Wash hands during breaks and after work. Ensure that drainage, surface and ground water and soil are protected.
 - **Guidelines for fire and explosion protection:** *No special treatment (preparation) is needed.*
- 7.2 **Conditions for safe storage, including any incompatibilities**
 - **Requirements to be met by storerooms and receptacles:** *Store in properly labeled, tightly sealed packages in a cool, dry, well-ventilated area.*
 - **Information about storage in one common storage facility:** *No specific recommendations.*
 - **Further information about storage conditions:** *Keep the container tightly closed.*
 - **Recommended storage temperature:** **-20°C**
- 7.3 **Specific end use(s):** *See SECTION 1.2*

SECTION 8. Exposure controls/personal protection

- 8.1 **Control parameters**
 - **Ingredients with limit values that require monitoring at the workplace:** *Not applicable.*
 - **Additional information:** *The lists valid during the making were used as basis.*
- 8.2 **Exposure controls**
 - **Appropriate engineering controls:**
It is recommended to use the room ventilation.
 - **Personal protective equipment:**
 - **General protective and hygienic measures:** *Keep away from foodstuffs, beverages and feed. Remove soiled, soaked clothing immediately. Wash hands before breaks and at the end of work.*
 - **Respiratory protection:** *Avoid breathing product vapors.*

• **Protection of hands:**

Protective gloves – the glove material has to be impermeable and resistant to the product/the substance/the preparation. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it – 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.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- a) **Appearance Form:** liquid
- b) **Colour:** colorless
- c) **Odour characteristic:** No data available.
- d) **Odour Threshold:** No data available.
- e) **pH:** No data available.
- f) **Melting point/freezing point Melting point:** No data available.
- g) **Initial boiling point and boiling range:** No data available.
- h) **Flash point:** No data available.
- i) **Evaporation rate:** No data available.
- j) **Flammability (solid, gas):** No data available.
- k) **Upper/lower flammability or explosive limits:** No data available.
- l) **Vapour pressure:** No data available
- m) **Vapour density** No data available.
- n) **Relative density:** No data available.
- o) **Water solubility:** soluble
- p) **Partition coefficient: n-octanol/water:** No data available.
- q) **Auto-ignition temperature:** No data available.
- r) **Decomposition temperature:** No data available.
- s) **Viscosity:** No data available.
- t) **Explosive properties:** No data available.

u) **Oxidizing properties:** *No data available.*

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

SECTION 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 further relevant information available.*

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

10.5 **Incompatible materials:** *No further relevant information available.*

10.6 **Hazardous decomposition product:** *No further relevant information available.*

SECTION 11. Toxicological information

11.1 **Information on toxicological effects**

a) **acute toxicity:** *Based on the available data, the classification criteria are not met.*

b) **skin corrosion/irritation:** *Based on the available data, the classification criteria are not met.*

c) **serious eye damage/irritation:** *Based on the available data, the classification criteria are not met.*

d) **respiratory or skin sensitisation:** *Based on the available data, the classification criteria are not met.*

e) **germ cell mutagenicity:** *Based on the available data, the classification criteria are not met.*

f) **carcinogenicity:** *Based on the available data, the classification criteria are not met.*

g) **reproductive toxicity:** *Based on the available data, the classification criteria are not met.*

h) **STOT-single exposure:** *Based on the available data, the classification criteria are not met.*

i) **STOT-repeated exposure:** *Based on the available data, the classification criteria are not met.*

j) **aspiration hazard:** *Based on the available data, the classification criteria are not met.*

SECTION 12. Ecological information

12.1 **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:** *The product does not contain substances that meet the PBT and vPvB criteria.*

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

SECTION 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 cannot be cleaned should be disposed of as if it were material.*

– **Recommended cleansing agents:** *Water, if necessary together with cleansing agents. Directive 94/62/EC of the European Parliament and of the Council of 20 December 1994 on packaging and packaging waste.*

Directive 2008/98/EC Of The European Parliament And Of The Council of 19 November 2008 on waste and repealing certain Directives.

SECTION 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 and the IBC Code: *Not applicable.*

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

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

SECTION 15. Regulatory information

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

EU REGULATIONS:

– *Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals*

(REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

– Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

– Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance).

– Directive 2008/98/EC Of The European Parliament And Of The Council of 19 November 2008 on waste and repealing certain Directives.

15.2 Chemical safety assessment: *A chemical safety assessment was not required.*

– **List of substances subject to authorization (REACH; Annex XIV):** *Not applicable.*

– **Candidate list of SVHCs:** *Not applicable.*

– **Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (REACH; Annex XVII):** *Not applicable.*

SECTION 16. Other information

16.1 Abbreviations and acronyms, list of relevant hazard statements used in the safety data sheet:

ATE: *Acute Toxicity Estimate*

LD50: *lethal dose, 50%*

LC50: *lethal concentration, 50%*

ED50: *effective dose, 50%*

EC50: *effective concentration, 50%*

PBT: *Persistent, Bioaccumulative and Toxic*

vPvB: *very Persistent and very Bioaccumulative*

DNEL: *derived no-effect level*

PNEC: *predicted no-effect concentration*

NOEC: *no observed effects concentration*

LOEC: *Lowest Observed Effect Concentration*

ADR: *International Carriage of Dangerous Goods by Road*

RID: *International Carriage of Dangerous Goods by Rail*

IMDG: *International Maritime Dangerous Goods*

IATA: *International Air Transport Association*

ICAO: *Safe Transport of Dangerous Goods by Air*

Method of classification: *Calculation method.*

Training: *No training is required.*

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. They should be considered as a guide to the safe use of the product.