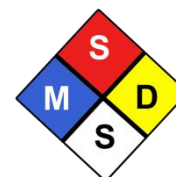


Material Safety Data Sheet

Revision Date: 26-Sept-2019

Prepared according to 1907/2006/EC, Article 31



Material Safety Data Sheet

HigherPurity™ Viral RNA Extraction Kit

Ref:


AN0805-S


AN0805


AN0805-XL

1- Company/Undertaking Identification

CANVAX BIOTECH, S.L.

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 : info@canvaxbiotech.com

Emergency Telephone No.:

European emergency number: 112

900-868538 (CHEMTREC Spain)

+(34)-931768545 (CHEMTREC international)

CHEMTREC (Italy)800-789-767

CHEMTREC (Milan) +(39)-0245557031

2. CHEMICAL CHARACTERISATION

BLY Buffer

Substance	CAS N°	N° EINECS	Concentration (%)
Guanidine-hydrochloride	50-01-1	200-002-3	25-50%
Triton X-100	9002-93-1	-	2-3%

WB1 Buffer

Substance	CAS N°	N° EINECS	Concentration (%)
Guanidine-hydrochloride	50-01-1	200-002-3	>60%

WB2 Buffer

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Contains no hazardous substances in concentrations to be declared

Elution Buffer

Contains no hazardous substances in concentrations to be declared

Carrier RNA (Lyophilized)

Contains no hazardous substances in concentrations to be declared

3. HAZARDS IDENTIFICATION

BLY Buffer

Classification (REGULATION (EC) No 1272/2008)

Hazard pictograms:



Classification: Harmful

Acute toxicity, Category 4

Skin irritation, Category 2

Serious eye damage, Category 1

Long-term (chronic) aquatic hazard,
Category 2

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H411: Toxic to aquatic life with long lasting effects.

Warnings: Harmful by inhalation and if swallowed. Irritating to eyes and skin.

Note: slightly hazardous to water and ground.

WB1 Buffer

Classification (REGULATION (EC) No 1272/2008)

Hazard pictograms:



Classification: Harmful

Acute toxicity, Category 4

Skin irritation, Category 2

Serious eye damage, Category 1

Long-term (chronic) aquatic hazard,

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

Warnings: Harmful by inhalation and if swallowed. Irritating to eyes and skin.

Note: slightly hazardous to water and ground.

WB2 Buffer

Contains no hazardous substances in concentrations to be declared

Elution Buffer

Contains no hazardous substances in concentrations to be declared

Carrier RNA (Lyophilized)

Contains no hazardous substances in concentrations to be declared

4. FIRST AID MEASURES

General advice: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

Skin contact: If skin irritation persists, call a physician.

If on skin, rinse well with water.

If on clothes, remove clothes.

Eye contact: Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses.

Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist

Ingestion: Clean mouth with water and drink afterwards plenty of water.

Keep respiratory tract clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Decomposition: Dangerous decomposition is not anticipated.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.

Environmental precautions: Prevent product from entering drains.

Actions to be taken on spillage: Sweep up spilled solids carefully. Dilute spilled liquids with plenty of water and adsorb.

Absorbent material: No restriction.

Actions to be taken to limit damage: Special measures to limit damage are not necessary.

7. HANDLING AND STORAGE

Handling:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Liquid is not inflammable. Liquid is not combustible. Open and handle vessels carefully.

Storage: Store at room temperature.

Do not store together with: No restriction.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

BLY Buffer

Contains no substances with occupational exposure limit values.

Carrier RNA

Contains no substances with occupational exposure limit values.

WB1 Buffer

Contains no substances with occupational exposure limit values.

WB2 Buffer

Contains no substances with occupational exposure limit values.

Elution Buffer

Contains no substances with occupational exposure limit values.

Exposure controls

Respiratory protection: No personal respiratory protective equipment normally required.

Eye protection: Safety glasses

Hand protection: One-way gloves

Hygiene measures: Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

BLY Buffer

Appearance: colourless, Liquid

Odour: Odourless

Solubility: no data available

pH : 6.2 – 6.7

Carrier RNA

Appearance: Powder (Lyophilized)

Odour: Odourless

Solubility: no data available

WB1 Buffer

Appearance: Colourless, Liquid

Odour: Odourless

Solubility: no data available

pH : 6-7

WB2 Buffer

Appearance: Colourless, Liquid
Odour: Odourless
Solubility: no data available
pH : 7-8

Elution Buffer

Appearance: Colourless, Liquid
Odour: Odourless
Solubility: no data available
pH : 6-8

10. STABILITY AND REACTIVITY

Hazardous reactions: none under normal use

Hazardous decomposition products: none

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous reactions: Keep away from heat and sources of ignition.

Reacts with the following substances:

Acids

Oxidizing agents

No decomposition if stored and applied as directed.

Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

Bases

Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as:

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

Nitrogen oxides (NO_x)

Ammonia

Gaseous hydrogen chloride (HCl).

11. TOXICOLOGICAL INFORMATION

BLY Buffer / WB1 Buffer

Information on toxicological effects:

Acute toxicity

Harmful if inhaled.

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

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

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

Aspiration hazard Based on available data, the classification criteria are not met.

11. ECOLOGICAL INFORMATION

Toxicity:

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1: slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

12. DISPOSAL CONSIDERATIONS

Waste disposal route: Used reagent can be disposed of in the waste water in accordance with local regulations.

Disposal of empty packaging: Dispose of empty packs by local recycling or waste disposal routes if necessary, clean them beforehand.

13. TRANSPORT INFORMATION

UN number

Not regulated as a dangerous good

UN proper shipping name

Not regulated as a dangerous good

Transport hazard class(es)

Not regulated as a dangerous good

Packing group

Not regulated as a dangerous good

Environmental hazards

Not regulated as a dangerous good

Special precautions for user

Remarks : Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

14. REGULATIONS

Sara

Section 355 (extremely hazardous substances): None of the ingredients is listed.

Section 313 (Specific toxic chemical listings): None of the ingredients is listed.
TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65

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

Chemicals known to cause reproductive toxicity: None of the ingredients is listed.

Hazard symbol: Harmful

Risk phrases: irritating to eyes and skin

Product related hazard information:

The product has been classified and in accordance with directives on hazardous materials.

National regulations:

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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

15. OTHER INFORMATION

For research use only Not for diagnostic or therapeutic use on humans or animals. The preceding information was acquired through a research and diligent investigation and the recommendations are based on prudent application of professional judgment. The information should not be considered as exhaustive and should be used only as a guide. All materials and mixtures may present unknown hazards and should be used with care. Since the company cannot control the actual methods, volumes, or the field conditions, the company shall not be liable for any damages or losses resulting from handling or from contact with the product described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.