

Material Safety Data Sheet

1. Name of substance/preparation and company**1.1. Commercial product: ExpressArt mRNA Amplification kit**

Cat.-nos.: 5199-A30, 5299-A15, 5399-A15,
6199-A30, 6299-A15, 6399-A15, 7199-A30, 7299-A15, 7399-A15

1.2. Company: AmpTec GmbH
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2. Composition/Information on constituents**2.1. constituents:**

Box I Classification: not necessary
Contains: No hazardous substances in reportable quantities.

Box II Bottle Binding Buffer (1x)
Classification: Xn; F; R: 11-20/21/22-32; S: 7-13-16.
Contains: 5 % Ethanol (CAS-Nr.: 0000064-17-5; F; R: 11; S: 7-16)
and 35 % Guanidinium thiocyanate (CAS-Nr.: 0000059-38-4; Xn;
R:20/21/22-32;S: 13)

Bottle Washing buffer (1x) I
Classification: not necessary
Contains: No hazardous substances in reportable quantities.

Bottle Elution Buffer (1x) I
Classification: not necessary
Contains: No hazardous substances in reportable quantities.

Notes: Is to be classified according to EEC directive 67/548 and 88/379 as hazardous.
Classification: Harmful
Highly flammable

3. Hazards identification

Warnings: 11 Highly flammable
20/21/22 Harmful by inhalation, in contact with skin and if swallowed
32 Contact with acids liberates very toxic gas

Notes: Substance hazardous to water and ground water

4. First aid measures

First aid: Call a doctor immediately if allergic signs, particularly involving the airways, are observed.

Skin contact: wash off with water. Get medical advice if irritation occurs

Eye contact: flush eyes with water for at least 15 minutes. Get medical advice if irritation occurs.

Ingestion: drink plenty of water. Seek medical advice

Instructions for physician: No known symptoms to date. Treat symptomatically.

5. Fire-fighting measures

Extinguishing media: no restriction

Thermal decomposition: Gases which are damaging to health do not form in dangerous quantities.

6. Accidental release measures

After spillage: Absorb and clean with water

Absorbent media: no restriction

Special measures to limit damage are not necessary.

7. Handling and storage

7.1. handling Combustible substance.
When handling the product, usual precautions taken when handling chemicals should be observed.
Wear gloves and eye protection.

7.2. storage no restrictions for safety reasons;
Box I: store at -20°C to preserve product quality

8. Exposure controls/personal

8.1. exposure controls no monitoring required

8.2. respiratory protection not required

8.3. hand protection protective gloves

8.4. eye protection protective glasses

8.5. body protection laboratory coat

Wash hands before breaks and at the end of work.

9. Physical and chemical properties

Physical state liquid

Miscible with water yes

Colour colourless

Odor odorless

pH 7,0 – 9,0

flash point not determined

density not determined

10. Stability and reactivity

Hazardous reactions: None known when used appropriately.
Hazardous decomposition products: Only small concentrations.

11. Toxicology

Bottle Binding Buffer

Ethanol

LD50 oral	7060 mg/kg (rat)
LD50 intraperitoneal	4070 mg/kg (rat)
LD50 skin	not known
LD50 inhal	19000 ppm (mouse)

Guanidinium thiocyanate

LD50 oral	not known
LD50 intraperitoneal	300 mg/kg (mouse)
LD50 skin	not known
LD50 inhal	not known

12. Ecological information

Hazards: Substance hazardous to water and ground water.

Bottle Binding Buffer

Ethanol

LC Daphnia 7800 mg/l

13. Disposal information

Waste should be burnt in a chemical incinerator. Observe all local regulations.

14. Transport information

Notes: This product is not subject to current regulations for transportation of hazardous goods (GGVS/ADR, GGVE/RID, IMDG, IATA/ICAO).

15. Regulatory

This product does not require labelling.

16. Other information

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features. AmpTec is not held liable for any damage resulting from handling or from contact with the above products. MSDS has been prepared in accordance with EU Directive 67/548/EEC, 88/379/EEC, 91/155/EEC, 2001/58/EG and other EU Community legislations in force.