

Material Safety Data Sheet of the nucleic acids EXTRACTION Purification kits

I. Section 1. Identification of the substance/mixture and of the company

1. References:

CEIVD kits

Name of the kit	Référence
Extraction and purification kit of NA for blood 14R IVD PF	KIT-EP_14_112_I_PF
Extraction and purification kit of NA for blood 24R IVD PF	KIT-EP_24_112_I_PF
Extraction and purification kit of NA for blood 96R IVD PF	KIT-EP_96_112_I_PF

Kits

Name of the kit	Référence
Kit extraction purification barrettes 1x10rxn 123 RUO PF	KIT-EP_10_123_R_PF
Kit extraction purification tubes 14rxn 123 RUO PF	KIT-EP_14_123_R_PF
Kit extraction purification flacons 96rxn 112 RUO PF	KIT-EP_96_112_R_PF
Kit extraction purification flacons 96rxn 123 RUO PF	KIT-EP_96_123_R_PF
Sachet de 10 barrettes extraction 123 pour sequence PRO	PRO_EXT_TT_10ST
1 barrette d'extraction 123_unité_PI	PRO_EXT123_48ST_PI
Kit extraction purification flacons 96rxn BVD	ADN_E_manuel_BVD_v2

These references are not exhaustive. This MSDS sheet regroup all buffers used in the ADNucleis extraction and purification kits. Please reference to the buffer listed in the IFU of a specific kit.

2. List of buffers present the different kits of extraction and purification :

- The PVG/GTS Buffer (contain guanidinium salts, nonionic surfactant)
- The TME buffer
- The PE mix
- RNA carrier
- LYSA buffer
- SP Solution
- BMB suspension (contain guanidinium salts, ethanol)
- Wash buffer 1 (contain guanidinium salts, 2-propanol)
- Wash buffer 2 (contain ethanol)
- Wash buffer 3
- Elution buffer
-

3. Relevant identified uses of the substance or mixture and uses advised against

Laboratory chemicals, Manufacture of substances

4. Details of the supplier of the safety data sheet

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 RCB LYON n°497802165
 SIRET 49780216500017
 24 B rue du Stade

F-69290 GREZIEU-LA-VARENNE

FRANCE

Tél. +33 (0) 478 56 79 37

contact@adnucleis.com

5. Emergency telephone number

France : I.N.R.S.:+33 (0)1 45 42 59 59

CHEMTREC: 1-800-262-8200 (within the U.S.) or +1 703-741-5500 (from anywhere in the world).

II. Section 2. Hazards identification

1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

- **LYSA buffer**

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

Chronic aquatic toxicity (Category 1), H410

- **PVG/GTS Buffer**

Acute toxicity, Oral (Category 4)

Acute toxicity, Inhalation (Category 4)

Acute toxicity, skin (Category 4)

Skin irritation (Category 1C)

Chronic toxicity for the aqueous environment (Category 3)

- **TME Buffer**

Not a hazardous substance or mixture.

- **PE mix**

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Respiratory sensitisation (Category 1), H334

Specific target organ toxicity (Category 3), H335

- **RNA carrier**

Skin corrosion/irritation Category 3 H316

Serious eye damage/irritation Category 2B H320

Specific target organ toxicity (Category 3), H335

- **SP Solution**

Not a hazardous substance or mixture.

- **BMB suspension**

Flammable liquids (Category 2), H225

Eye irritation (Category 2), H319

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

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- Wash 1 Buffer

Flammable liquids (Category 2), H225

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

- Wash 2 Buffer

Flammable liquids (Category 2), H225

Eye irritation (Category 2), H319

- Wash 3 buffer and elution buffer

Not a hazardous substance or mixture.

2. Label elements

Labelling according Regulation (EC) No 1272/2008

- LYSA buffer



Signal word : Danger

- PVG/GTS Buffer



Signal word : Warning

- TME Buffer

Not a hazardous substance or mixture.

- PE mix



Signal word : Danger

- RNA carrier mix



Signal word : Warning

- BMB suspension



Signal word Danger

- Wash 1 Buffer



Signal word Danger

- Wash 2 Buffer



Signal word Danger

3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

4. Hazard statement(s)

- LYSA buffer

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

- PVG/GTS Buffer

H302 + H332 Harmful if swallowed or if inhaled

H315 Causes skin irritation

H319 Causes serious eye irritation..

H411 Very toxic to aquatic life with long lasting effects.

- TME Buffer

Not a hazardous substance or mixture.

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- PE mix

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation Single exposure; Respiratory tract irritation

- RNA carrier

H316 Causes mild skin irritation.

H320 Causes eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation Single exposure; Respiratory tract irritation

- SP solution

Not a hazardous substance or mixture.

- BMB suspension

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

- Wash 1 Buffer

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness.

- Wash 2 Buffer

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

- Wash 3 buffer and elution buffer

Not a hazardous substance or mixture.

Labelling according Regulation (EC) No 1272/2008

5. Precautionary statements

- LYSA Buffer

P280 Wear eye protection/ face protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Supplemental Hazard Statements: none

- PVG/GTS Buffer

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

P280 Wear eye protection/ face protection.

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P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

Supplemental Hazard Statements : None

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

- TME Buffer

Not a hazardous substance or mixture.

- PE mix

P261 Avoid breathing dust.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Supplemental Hazard Statements none

- RNA carrier

P261 Avoid breathing dust/ fume/ gas/ vapor/ or spray.

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P281 Use personal protective equipment as required.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- SP solution

Not a hazardous substance or mixture

- BMB suspension

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear eye protection/ face protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P403 + P235 Store in a well-ventilated place. Keep cool.

Supplemental Hazard Statements none.

- Wash1 buffer

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapours.

P280 Wear eye protection/ face protection.

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P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

- Wash 2 buffer

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P403 + P235 Store in a well-ventilated place. Keep cool

- Wash 3 buffer and elution buffer

Not a hazardous substance or mixture.

Labelling according Regulation (EC) No 1272/2008

III. SECTION 3: Composition/information on ingredients

Hazardous ingredients according to Regulation (EC) No 1272/2008

- LYSA Buffer

<i>Component</i>	<i>classification</i>	<i>Concentration</i>
Triton X100	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H315, H318, H400, H410 M-Factor - Aquatic Acute: 10	>= 1% <=90%

- PVG/GTS Buffer

Component Classification Concentration

<i>Component</i>	<i>classification</i>	<i>Concentration</i>
Guanidium salts	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H302, H332, H315, H319	>= 10% <=90%
Triton X100	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H315, H318, H400, H410 M-Factor - Aquatic Acute: 10	>= 1% <=90%

- SP buffer

Not a hazardous substance or mixture.

- TME Buffer

Not a hazardous substance or mixture.

- PE mix

Component Classification Concentration

<i>Component</i>	<i>classification</i>	<i>Concentration</i>
Proteinase K	Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; STOT SE 3; H315,	<= 100 %

- RNA carrier

Component Classification Concentration

<i>Component</i>	<i>classification</i>	<i>Concentration</i>
Acrylic acid polymer	Proprietary	< 10 %
Nonhazardous Components		> 90%

- BMB suspension

<i>Component</i>	<i>classification</i>	<i>Concentration</i>
Ethanol	Flam. Liq. 2; Eye Irrit. 2; H225, H319 Concentration limits: >= 50 %: Eye Irrit. 2A, H319;	>= 10% <=90%
Guanidinium salts	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H302, H332, H315, H319	>= 10% <=90%

- Wash 1 buffer

<i>Component</i>	<i>classification</i>	<i>Concentration</i>
2-Propanol	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336	>= 10% <=90%
Guanidinium salts	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H302, H332, H315, H319	>= 10% <=90%

- Wash 2 buffer

<i>Component</i>	<i>classification</i>	<i>Concentration</i>
Ethanol	Flam. Liq. 2; Eye Irrit. 2; H225, H319 Concentration limits: >= 50 %: Eye Irrit. 2A, H319;	>= 10% <=90%

- Wash 3 buffer and elution buffer

Not a hazardous substance or mixture.

iv. Section 4 First aid measures**1. Description of first aid measures****GENERAL ADVICE**

Consult a physician. Show this safety data sheet to the doctor in attendance.

IF INHALED

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

IN CASE OF SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water. Wash contaminated clothing before use. No adverse effects expected. Consult a physician.

IN CASE OF EYE CONTACT

Check and remove contact lenses. Flush with water in an eye wash for at least 15 minutes, holding eyelids open. Obtain medical attention if symptoms or discomfort persist. Consult a physician.

IF SWALLOWED

If swallowed, wash out mouth with water provided person is conscious. No adverse effects expected unless a very large quantity is ingested. Consult a physician.

2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section II.2) and/or in section 11

3. Indication of any immediate medical attention and special treatment needed

No data available

V. SECTION 5: Firefighting measures

1. Extinguishing media

Suitable extinguishing MEDIA

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

2. Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

4. Further information

No data available

VI. SECTION 6: Accidental release measures

1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. Evacuate personnel to safe areas. For personal protection see section 8.

2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

4. Reference to other sections

For disposal see section 13.

VII. SECTION 7: Handling and storage

1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section II.2.

2. Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non Combustible Solids. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Use appropriate absorbent material, place in bag and hold for waste disposal. Do not let product enter drains. Wash spill site after material pickup is complete.

3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

VIII. SECTION 8: Exposure controls/personal protection

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1. Control parameters

Components with workplace control parameters

2. Exposure controls

APPROPRIATE ENGINEERING CONTROLS

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

SKIN PROTECTION

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

BODY PROTECTION

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

RESPIRATORY PROTECTION

Where risk assessment shows air-purifying respirators are appropriate use a full-face respiratory with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government.

CONTROL OF ENVIRONMENTAL EXPOSURE

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

IX. SECTION 9: Physical and chemical properties

1. Information on basic physical and chemical properties

	PVG/GTS	PE	LYSA	RNA carrier
Appearance	liquid, colour light yellow	powder, lyophilized	liquid, colourless	Liquid, colourless, soluble in water
Odour	No data available			
Odour threshold	No data available			
pH	No data available			
Melting point/freezing point	No data available			
Initial boiling point	No data available			
Flash point	No data available			
Evaporation rate	No data available			
Flammability	No data available			
Upper/lower flammability	No data available			
Vapour pressure	No data available			
Vapour density	No data available			
Relative density	No data available			
Water solubility	No data available			
Partition coefficient	No data available			
Auto-ignition	No data available			
Decomposition temperature	No data available			
Viscosity	No data available			
Explosive properties	No data available			
Oxidizing properties	No data available			

	SP solution	BMB suspension	Wash 1 buffer	Wash 2 buffer	Wash 3 buffer	Elution buffer
Appearance	Liquid colourless	Liquid greyish	Liquid colourless	Liquid colourless	Liquid colourless	Liquid colourless
Odour	No data available	No data available	Alcohol-like	No data available		
Odour threshold	No data available					
pH	No data available					

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Melting point/freezing point		144°C	-89.5°C	144°C	No data available
Initial boiling point		78,0 - 80,0 °C	82°C	78,0 - 80,0 °C	No data available
Flash point		19,5 °C - closed cup	12.0°C	19,5 °C - closed cup	No data available
Evaporation rate		No data available	3.0	No data available	No data available
Flammability	No data available				No data available
Upper/lower flammability	No data available	19 %(V)/ 3,3 %(V)	12.7 % (V)/2 % (V)	19 %(V)/ 3,3 %(V)	No data available
Vapour pressure	No data available	59,5 hPa at 20,0 °C	43.2 hPa at 20°C 58.7 hPa at 25°C	59,5 hPa at 20,0 °C	No data available
Vapour density	No data available				
Relative density	No data available	0,79 g/cm3	0,785 g/mL at 25 °C	0,79 g/cm3	No data available
Water solubility	completely soluble				No data available
Partition coefficient	No data available	No data available	log Pow: 0,05	No data available	
Auto-ignition	425,0 °C	363,0 °C	425,0 °C	363,0 °C	No data available
Decomposition temperature	No data available				
Viscosity	No data available				
Explosive properties	No data available				
Oxidizing properties	No data available				

2. Other safety information

No data available

X. SECTION 10: Stability and reactivity

	PVG/GTS	PE	LYSA	RNA carrier
Reactivity	No data available			
Chemical Stability	Stable under recommended storage conditions			
Possibility of hazardous reactions	No data available			
Conditions to avoid	No data available			
Incompatible materials	Strong acids, Strong bases, Strong oxidizing agents	Strong oxidizing agents	Strong acids, Strong bases, Strong oxidizing agents	Strong oxidizing agents
Hazardous decomposition	Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5	Other decomposition products - no data available In the event of fire: see section 5	Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5	Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides (NOx)

	SP solution	BMB suspension	Wash 1 buffer	Wash 2 buffer	Wash 3 buffer	Elution buffer
Reactivity	No data available					
Chemical Stability	Stable under recommended storage conditions					
Possibility of hazardous reactions	No data available					
Conditions to avoid	No data available	Heat, flames and sparks			No data available	
Incompatible materials		Alkali metals, Ammonia, Oxidizing agents, Peroxides	Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids	Alkali metals, Ammonia, Oxidizing agents, Peroxides		
Hazardous decomposition	Other decomposition products - No data available In the event of fire: see section 5		Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5	Other decomposition products - No data available In the event of fire: see section 5		

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XI. SECTION 11: Toxicological information

1. Information on toxicological effects

	PVG/GTS	PE	LYSA	RNA carrier
Acute toxicity	No data available			May cause skin or eye irritation. Ingestion may be harmful. No toxicological information is available. No LD50/LC50 information found relating to normal routes of occupational exposure.
SKIN CORROSION/IRRITATION	No data available			
SERIOUS EYE DAMAGE/EYE IRRITATION	No data available			
RESPIRATORY OR SKIN SENSITISATION	No data available			
GERM CELL MUTAGENICITY	No data available			
CARCINOGENICITY	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA.			
REPRODUCTIVE TOXICITY	No data available			
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	No data available			
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	No data available			
ASPIRATION HAZARD	No data available			
ADDITIONAL INFORMATION	RTECS: Not available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Liver - Irregularities - Based on Human Evidence (Guanidinium salts)	RTECS: Not available prolonged or repeated exposure can cause: Asthma Lungs - Irregularities - Based on Human Evidence	RTECS: MD0907700 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	

	SP solution	BMB suspension	Wash 1 buffer	Wash 2 buffer	Wash 3 buffer	Elution buffer
Acute toxicity	No data available		LD50 Oral - Rat - 5.045 mg/kg Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Somnolence (general depressed activity). LC50 Inhalation - Rat - 8 h - 16000 ppm LD50 Dermal - Rabbit - 12.800 mg/kg	No data available		
SKIN CORROSION/IRRITATION	No data available		Skin - Rabbit Result: Mild skin irritation	No data available		
SERIOUS EYE DAMAGE/EYE IRRITATION	No data available		Eyes - Rabbit Result: Eye irritation - 24 h	No data available		
RESPIRATORY OR SKIN SENSITISATION	No data available					
GERM CELL MUTAGENICITY	No data available					
CARCINOGENICITY	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.)	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable possible or confirmed human	This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.		

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		carcinogen by IARC.		
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XII. SECTION 12: Ecological information

	PVG/GTS	PE	LYSA	RNA carrier
Toxicity	No data available			
Persistence and degradability	No data available			
Bioaccumulative potential	No data available			
Mobility in soil	No data available			
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	No data available
Other adverse effects	No data available			

	SP solution	BMB solution	Wash 1 buffer	Wash 2 buffer	Wash 3 buffer	Elution buffer
Toxicity	No data available		Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 9.640,00 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 5.102,00 mg/l - 24 h Immobilization EC50 - Daphnia magna (Water flea) - 6.851 mg/l - 24 h Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - > 2.000,00 mg/l - 72 h EC50 - Algae - > 1.000,00 mg/l - 24 h	No data available		
Persistence and degradability	No data available					
Bioaccumulative potential	No data available		No bioaccumulation is to be expected (log Pow <= 4).	No data available		
Mobility in soil	No data available					
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.					
Other adverse effects	No data available					

XIII. SECTION 13: Disposal consideration

1. Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

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RNA carrier: Keep in sealed containers until final disposal. Product may be incinerated according to federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

XIV. SECTION 14: Transport information

	PVG/GTS	PE	LYSA	RNA carrier
Un number	ADR/RID: - IMDG: - IATA: -	ADR/RID: - IMDG: - IATA: -	ADR/RID: 3082 IMDG: 3082 IATA: 3082	
Un proper shipping name	ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-tertiary-Octylphenoxy polyethyl alcohol) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-tertiary-Octylphenoxy polyethyl alcohol) IATA: Environmentally hazardous substance, liquid, n.o.s. (p-tertiary-Octylphenoxy polyethyl alcohol)	ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods	ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-tertiary-Octylphenoxy polyethyl alcohol) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-tertiary-Octylphenoxy polyethyl alcohol) IATA: Environmentally hazardous substance, liquid, n.o.s. (p-tertiary-Octylphenoxy polyethyl alcohol)	DOT: This material is not a hazardous material as defined by 49CFR 172.101 by the U.S. DOT. IATA: Non-hazardous for air transport. IMDG: Non-hazardous material.
TRANSPORT HAZARD CLASS	ADR/RID: 9 IMDG: 9 IATA: 9	ADR/RID: - IMDG: - IATA: -	ADR/RID: 9 IMDG: 9 IATA: 9	
PACKAGING GROUP	ADR/RID: III IMDG: III IATA: III	ADR/RID: - IMDG: - IATA: -	ADR/RID: III IMDG: III IATA: III	
ENVIRONMENTAL HAZARDS	ADR/RID: yes IMDG Marine pollutant: yes IATA: yes	ADR/RID: no IMDG Marine pollutant: no IATA: no	ADR/RID: yes IMDG Marine pollutant: yes IATA: yes	
SPECIAL PRECAUTIONS FOR USER	No data available			

	SP solution	BMB suspension	Wash 1 buffer	Wash 2 buffer	Wash 3 buffer	Elution buffer
Un number	ADR/RID: - IMDG: - IATA: -	ADR/RID: 1170 IMDG: 1170 IATA: 1170	ADR/RID: 1219 IMDG: 1219 IATA: 1219	ADR/RID: 1170 IMDG: 1170 IATA: 1170	ADR/RID: - IMDG: - IATA: -	
Un proper shipping name	ADR/RID: Marchandise non dangereuse IMDG: Not dangerous goods IATA: Not dangerous goods	ADR/RID: ETHANOL SOLUTION IMDG: ETHANOL SOLUTION IATA: Ethanol solution	ADR/RID: ISOPROPANOL IMDG: ISOPROPANOL IATA: Isopropanol	ADR/RID: ETHANOL SOLUTION IMDG: ETHANOL SOLUTION IATA: Ethanol solution	ADR/RID: Marchandise non dangereuse IMDG: Not dangerous goods IATA: Not dangerous goods	
TRANSPORT HAZARD CLASS	ADR/RID: - IMDG: - IATA: -	ADR/RID: 3 IMDG: 3 IATA: 3			ADR/RID: - IMDG: - IATA: -	
PACKAGING GROUP	ADR/RID: - IMDG: - IATA: -	ADR/RID: II IMDG: II IATA: II			ADR/RID: - IMDG: - IATA: -	
ENVIRONMENTAL HAZARDS	ADR/RID: no IMDG Marine pollutant: no IATA: no					
SPECIAL PRECAUTIONS FOR USER	No data available					

XV. SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

RNA carrier: OSHA: IRRITANT. SARA 302: No; SARA 313, No; SARA311/312 Acute health hazard. RTECS NO: AS3700000 Acrylamide, polymers. EUROPEAN: Caution: Substance not fully tested. IRRITANT.

1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Authorisations and/or restrictions on use REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : p-tertiary-Octylphenoxy polyethyl alcohol

2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

XVI. SECTION 16: Other information

1. Full text of H-Statements referred to under sections 2 and 3.

- LYSA Buffer

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

- PVG/GTS

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects

- PE

Eye Irrit. Eye irritation

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation. Resp. Sens. Respiratory sensitisation Skin Irrit. Skin irritation

STOT SE Specific target organ toxicity - single exposure

- RNA carrier

H316 Causes mild skin irritation.

H320 Causes eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation. Resp. Sens. Respiratory sensitisation Skin Irrit. Skin irritation

- SP solution

Not a hazardous substance or mixture.

- BMB suspension

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

- Wash 1 buffer

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness

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Effective Date: 11 sep 2025 Rev: 8



- Wash 2 buffer
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation

- Wash 3 buffer and elution buffer
Not a hazardous substance or mixture.

2. Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. ADNUCLEIS and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.