SAFETY MATERIAL DATA SHEETS

Environmental DNA isolation kit

SYL002

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Sylphium
molecular ecology

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1. Sample preservation solution (S1)

Identification of the product and of the company

Product name: Sample preservation solution

Also known as: Internal negative control (S1)

Product number: SYL002-S1

Supplier: Sylphium Molecular Ecology
Diamantlaan 6b
9743 BG Groningen
+31 6824 26444
info@sylphium.com

Composition and information on ingredients

Chemical name	CAS number	Percentage
Cetyltrimethylammonium bromide (CTAB)	57-09-0	1-5%
Sodium chloride (NaCl)	7647-14-5	5-10%
2-Mercaptoethanol (2-ME)	60-24-2	0.1-0.5%
Ethylenediaminetetraacetic acid (EDTA)	60-00-4	0.5-1%

Hazards identification

Substance characteristics	Potential health effects
• Physical state: liquid • Color: colorless to yellow • Odor: odorless to slightly sulfurous • Warning statements: none	• Inhalation: may cause irritation of the respiratory tract. • Skin contact: may cause skin irritation or dermatitis upon prolonged contact. • Eye contact: may cause eye irritation. • Ingestion: may cause gastrointestinal irritation or nausea.

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First aid measures

Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention immediately.
Skin contact	Wash affected area thoroughly with soap and water. Seek medical attention if irritation persists.
Eye contact	Flush eyes with plenty of water for at least 15 minutes, lifting the upper and lower eyelids occasionally. Seek medical attention if irritation persists.
Ingestion	If swallowed, do NOT induce vomiting. Rinse mouth with water. Seek medical attention immediately.

Fire-fighting measures

Fire and explosion Hazards	Not combustible. Will not burn under normal fire conditions.
Fire-fighting measures	Use water, foam or dry chemical to extinguish fire.
Flash point	Not applicable.
Auto-ignition temperature	Not applicable.

Accidental safety measures

Personal precautions	Wear protective equipment such as gloves, safety goggles, and a lab coat.
Environmental precautions	Do not allow material to contaminate water sources or soil.
Cleanup procedures	Absorb spills with absorbent material such as sand, vermiculite, or other inert material. Sweep up and place in a suitable container for disposal.

Handling and storage

Handling	Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.
Storage	Store in a cool, dry place. Keep container tightly closed.

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Exposure controls and personal protection

Engineering	Use in a well-ventilated area.
Personal protective Equipment	• Eye protection: Safety goggles. • Skin protection: gloves and lab coat. • Respiratory Protection: Use an appropriate NIOSH-approved respiratory protection if airborne exposure limits are exceeded or if respiratory irritation or distress is experienced.

Physical and chemical properties

Physical State	Liquid
Color	Colorless to yellow
Odor	Odorless to slightly sulfurous
pH	7.4-7.6
Boiling point	Not applicable
Melting point	Not applicable
Flash point	Not applicable
Auto-ignition	Not applicable
Solubility	Soluble in water

Stability and reactivity

Stability	Stable under normal conditions of use and storage.
Incompatible materials	Strong oxidizing agents.
Hazardous or decomposition products	May produce toxic fumes under fire conditions.

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Toxicological information

Acute toxicity	LD50/LC50: not applicable.
Skin corrosion or irritation	May cause skin irritation or dermatitis upon prolonged contact.
Serious eye damage or irritation	May cause eye irritation.

Ecological information

Ecotoxicity: not applicable.

Disposal considerations

Dispose of waste in accordance with local, state, and federal regulations.

Transport information

DOT (US): not regulated.

Regulatory information

OSHA hazards	Not regulated.
TSCA status	All components are listed on the TSCA inventory.

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Other information

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2. Phase separation solution (S2)

Identification of the product and of the company

Product name: Phase separation solution

Product number: SYL002-S2

Supplier: Sylphium Molecular Ecology
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9743 BG Groningen
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Composition and information on ingredients

Chemical name	CAS number	Percentage
Chloroform	67-66-3	200-663-8
Isoamylalcohol	123-51-3	204-633-5

Hazards identification

Substance characteristics	Potential health effects
• P261 Avoid breathing dust/fume/gas/mist/vapors/spray • P280 Wear protective gloves/protective clothing/eye protection/face protection • P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell • P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	• H302 Harmful if swallowed • H332 Harmful if inhaled • H312 Harmful in contact with skin

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First aid measures

Inhalation	Move the person to fresh air immediately. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If skin irritation or rash occurs, seek medical attention.
Eye contact	Rinse with water for several minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.
Ingestion	Rinse mouth. Do NOT induce vomiting. Call a physician immediately.

Fire-fighting measures

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Hazards during fire-fighting	Chloroform and isoamylalcohol may form flammable vapors.
Special protective equipment and precautions for firefighters	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Accidental safety measures

Personal precautions	Use personal protective equipment as required. Avoid breathing vapors.
Environmental precautions	Do not release into the environment.
Cleanup procedures	Absorb spill with an inert material and dispose of in accordance with local regulations.

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Handling and storage

Handling	Avoid breathing vapors. Use only in a well-ventilated area. Wash hands thoroughly after handling.
Storage	Store in a cool, dry, well-ventilated area. Keep container tightly closed. Keep away from heat, sparks, and flame.

Exposure controls and personal protection

Chloroform	Occupational exposure limits: 2 ppm (8-hour TWA)
Isoamylalcohol	Occupational exposure limits: not established.
Respiratory protection	Use a NIOSH-approved respirator if ventilation is inadequate or if the exposure limit is exceeded.
Hand/eye/skin protection	Wear gloves, safety goggles/glasses, and protective clothing

Physical and chemical properties

Physical and chemical properties	Chloroform	Isoamylalcohol
Physical State	Liquid	
Color	Clear	
Odor	Characteristic odor	
pH	NA	
Boiling point	61.2°C	131-132°C
Melting point	-63.5°C	-117°C
Flash point	None	43-44°C
Flammable explosion limits	9.5%-14.0%	0.7%-5.6%
Vapor pressure	160 mm Hg at 20°C	0.19 mm Hg at 20°C
Density	1.48 g/mL	0.809 g/mL

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Stability and reactivity

Stability	Stable under normal conditions.
Conditions to avoid	Heat, sparks, and flames.
Hazardous or decomposition products	May react with strong oxidizing agents.

Toxicological information

Acute toxicity	LD50 (rat, oral) 4000 mg/kg
Skin corrosion or irritation	May cause skin irritation.
Serious eye damage or irritation	May cause eye irritation.

Ecological information

Ecotoxicity: the mixture may be harmful to aquatic life.

Disposal considerations

Dispose of waste in accordance with local, state, and federal regulations.

Transport information

UN number: UN1888 Shipping name: Chloroform, with no more than 0.5% alcohol Transport hazard class(es): 6.1 Packing group: II Environmental hazards: marine pollutant.

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Regulatory information

EU regulations: Classification and labeling in accordance with Regulation (EC) No. 1272/2008 (CLP) Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) - Registration number: Not applicable Other EU regulations: Council Directive 67/548/EEC.

Other information

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3. Precipitation buffer (S3)

Identification of the product and of the company

Product name: Precipitation buffer

Product number: SYL002-S3

Supplier: Sylphium Molecular Ecology
Diamantlaan 6b
9743 BG Groningen
+31 6824 26444
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Composition and information on ingredients

Chemical name	CAS number
Substance	Mixture
Chemical name:	Not applicable
CAS-No:	Not applicable
EC-No:	Not applicable
Proportion:	Not applicable
Ingredients:	• NaAc • Acetic acid glacial • Glycogen

Hazards identification

Not classified as hazardous according to Regulation (EC) No. 1272/2008 [CLP] or Directive 67/548/EEC [DSD/DPD]

Hazards not otherwise classified (HNOC): none identified.

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First aid measures

Inhalation	Move to fresh air. If symptoms persist, call a physician.
Skin contact	Wash affected area thoroughly with soap and water. If irritation develops, seek medical attention.
Eye contact	Rinse thoroughly with water for at least 15 minutes. If irritation persists, seek medical attention.
Ingestion	Rinse mouth with water. Do not induce vomiting. Seek medical attention.

Fire-fighting measures

Suitable extinguishing media	Use dry chemical, foam, or carbon dioxide to extinguish fires.
Hazards during firefighting	None known.
Special protective equipment and precautions for firefighters	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Accidental safety measures

Personal precautions	Wear appropriate protective clothing and equipment. Avoid inhalation and contact with skin and eyes.
Environmental precautions	Do not allow to enter sewers, waterways, or soil.
Cleanup procedures	Absorb spill with inert material and dispose of in accordance with local regulations.

Handling and storage

Handling	Handling
Storage	Storage

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Exposure controls and personal protection

Control parameters	None established
Personal protective Equipment	• Eye/face protection: safety glasses or goggles • Skin protection: gloves and protective clothing as necessary • Respiratory protection: not normally required. If needed, use a NIOSH-approved respirator.

Physical and chemical properties

Physical State	Liquid
Color	Clear
Odor	Odorless
pH	5.2
Solubility	Soluble in water
Boiling point	Not applicable
Melting/freezing point	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Evaporation rate	Not applicable
Flammability	Not applicable
Explosion limits	Not applicable
Vapor pressure	Not applicable
Vapor density	Not applicable
Density	Not applicable
Solubility	Not applicable
Partition coefficient (n-octanol/water)	Not applicable
Decomposition temperature	Not applicable
Viscosity	Not applicable

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Stability and reactivity

Reactivity	Stable under normal conditions
Chemical stability	Stable under normal conditions
Incompatible materials	None known
Possibility of hazardous reactions	None known
Conditions to avoid	None known

Toxicological information

Acute toxicity: not expected to be toxic via ingestions, inhalation, or skin contact.

Ecological information

Ecotoxicity: not expected to be harmful to aquatic organisms.

Disposal considerations

Dispose of waste in accordance with local regulations.

Transport information

Not regulated.

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Regulatory information

Regulation (EC) No. 1907/2006 [REACH]	Not applicable
Regulation (EC) No. 1272/2008 [CLP]	Not applicable
Directive 67/548/EEC [DSD/DPD]	Not applicable

Other information

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4. Precipitation buffer (S4)

Identification of the product and of the company

Product name: Precipitation buffer (S4)

Product number: SYL002-S4

Supplier: Sylphium Molecular Ecology
Diamantlaan 6b
9743 BG Groningen
+31 6824 26444
info@sylphium.com

Composition and information on ingredients

Isoproanol.

Hazards identification

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

Flammable liquid category 2, skin irritation category 2, eye irritation category 2A, specific target organ toxicity – single exposure category 3 (central nervous system).

Precautionary statements

- **P210**: keep away from heat, sparks, open flames, hot surfaces. No smoking.
- **P233**: keep container tightly closed.
- **P240**: ground/bond container and receiving equipment.
- **P241**: use explosion-proof electrical/ventilating/lighting equipment.
- **P242**: use only non-sparking tools
- **P243**: take precautionary measures against static discharge.
- **P264**: wash skin thoroughly after handling.

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Precautionary statements continued

- **P280**: wear protective gloves/protective clothing/eye protection/face protection.
- **P303**+**P361**+**P353** (in case of skin or hair contact): take off all contaminated clothing immediately. Rinse skin with water/shower.
- **P305**+**P351**+**P338** (in case of eye contact): rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  P370+**P378**: in case of fire: Use CO2, dry chemical, or foam for extinction.
- **P403**+**P235**: Store in a well-ventilated place. Keep cool.
- **P501**: Dispose of contents/container in accordance with local, regional, national, and international regulations.

First aid measures

Inhalation	Move to fresh air. If symptoms persist, call a physician.
Skin contact	Wash affected skin thoroughly with soap and water. If skin irritation or rash occurs, get medical advice/attention.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Ingestion	Rinse mouth with water. Do not induce vomiting. Call a physician or Poison Control Center immediately.

Fire-fighting measures

Suitable extinguishing media	Carbon dioxide (CO_2), dry chemical, or foam.
Special hazards arising from the substance or mixture	• Flammable liquid and vapor. • Containers may rupture or explode in the heat of a fire.
Advice for firefighters	• Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. • Cool containers and surrounding area with water spray.

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Accidental safety measures

Personal precautions	• Use appropriate personal protective equipment. • Evacuate personnel to safe areas.
Environmental precautions	• Prevent substance from entering sewers or water sources.
Cleanup procedures	• Absorb spill with inert material (e.g., sand, earth, vermiculite) and place in a suitable container for disposal. • Clean contaminated surfaces thoroughly with water and detergent.

Handling and storage

Handling	• Keep away from heat, sparks, open flames, and hot surfaces. No smoking. • Only use in well-ventilated areas. • Wear appropriate personal equipment as indicated in Section 8.
Storage	• Store in a cool, well-ventilated area away from incompatible materials. • Keep containers tightly closed.

Exposure controls and personal protection

Engineering	Use local exhaust ventilation to maintain airborne concentrations below the exposure limits.
Personal protective Equipment	• Eye protection: wear safety glasses or goggles • Skin protection: wear appropriate protective clothing to prevent skin contact. • Hand protection: wear protective gloves. • Respiratory protection: use appropriate respiratory protection if ventilation is inadequate.

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Physical and chemical properties

Physical appearance	Clear, colorless liquid
Odor	Characteristic odor
pH	Not applicable
Boiling point	-89 °C
Melting point	82.5 °C
Flash point	12.2 °C
Evaporation rate	1.6 (butyl acetate=1)
Flammability:	Flammable
Upper/lower flammability or explosive limits	12.7% v/v Lower: 2% v/v
Vapor pressure	33 hPa at 20°C
Vapor density	2.07 (air=1)
Solubility (ies)	Miscible with water
Partition coefficient (n-octanol/water)	Log Kow: -0.23
Auto-ignition temperature	399 °C
Decomposition temperature	Not determined
Viscosity	2.4 mPa.s at 20°C

Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Heat, sparks, open flames, and hot surfaces.
Incompatible materials	Strong oxidizing agents, acids, alkalis, and reactive metals.
Hazardous decomposition products	Carbon monoxide (CO), carbon dioxide (CO2), and/or unidentified organic compounds may be formed during combustion.

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Toxicological information

Acute toxicity	• Oral: LD50 (rat): 5,600 mg/kg • Dermal: LD50 (rabbit): >20,000 mg/kg • Inhalation: LC50 (rat): 72,000 ppm/4 hours
Skin corrosion or irritation	May cause skin irritation.
Serious eye damage or irritation	May cause eye irritation.
Respiratory or skin sensitization, germ cell mutagenicity, carcinogenicity, reproductive toxicity, specific target organ toxicity (repeated exposure), aspiration hazard	Not classified.

Ecological information

Ecotoxicity: toxic to aquatic life with long lasting effects. Persistence and degradability: biodegradable. Bioaccumulative potential: low potential for bioaccumulation. Mobility in soil not determined.

Disposal considerations

Dispose of waste in accordance with local, state, and federal regulations.

Transport information

UN number and proper shipping name: UN1219 – isopropanol. Transport hazard class 3, packing group II. No environmental hazards an no special precautions for user.

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Regulatory information

- Regulation (EC) No. 1907/2006 (REACH)
- Regulation (EU) No. 2015/830
- United States Toxic Substances Control Act (TSCA) Inventory
- Canadian Domestic Substances List (DSL)
- Australian Inventory of Chemical Substances (AICS)
- Korean Existing Chemicals List (KECL)

Other information

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5. Wash solution (S5)

Identification of the product and of the company

Product name: Wash solution (S5)

Product number: SYL002-S5

Supplier: Sylphium Molecular Ecology
Diamantlaan 6b
9743 BG Groningen
+31 6824 26444
info@sylphium.com

Composition and information on ingredients

Ethanol (CAS No. 64-17-5).

Hazards identification

GHS classification:

Flammable liquid **category 2**, eye irritation **category 2A**, specific target organ toxicity (single exposure) **category 3**.

Hazard statements

- **H225**: highly flammable liquid and vapour
- **H319**: causes serious eye irritation
- **H336**: may cause drowsiness or dizziness

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Precautionary statements

- **P210**: keep away from heat, sparks, open flames, hot surfaces. No smoking.
- **P233**: keep container tightly closed.
- **P240**: ground/bond container and receiving equipment.
- **P241**: use explosion-proof electrical/ventilating/lighting equipment.
- **P242**: use only non-sparking tools
  P243: take precautionary measures against static discharge.
- **P264**: wash skin thoroughly after handling.
- **P271**: Only use outdoors or in a well-ventilated area.
- **P280**: wear protective gloves/protective clothing/eye protection/face protection.
- **P303**+**P361**+**P353** (in case of skin or hair contact): take off all contaminated clothing immediately. Rinse skin with water/shower.
- **P305**+**P351**+**P338** (in case of eye contact): rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **P370**+**P378**: in case of fire: Use CO2, dry chemical, or foam for extinction.
- **P337**+**P313**: If eye irritation persists: Get medical advice/attention.

First aid measures

Inhalation	Move the affected person to fresh air and keep them calm. If breathing is difficult, give oxygen. Get medical attention immediately.
Skin contact	Remove contaminated clothing and wash affected skin with plenty of water and soap. If irritation persists, seek medical attention.
Eye contact	Rinse the eyes thoroughly with water for at least 15 minutes while holding the eyelids open. If irritation persists, seek medical attention.
Ingestion	Do not induce vomiting. Rinse mouth with water and drink plenty of water. Seek medical attention immediately.

Symptoms of exposure may include dizziness, headache, nausea, and irritation of the eyes, skin, and respiratory system. Prolonged or repeated exposure may cause drying and cracking of the skin.

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Fire-fighting measures

Suitable extinguishing media	Dry chemical, carbon dioxide (CO2), water spray, or foam.
Special hazards arising from the substance or mixture	Ethanol is highly flammable and may ignite from heat, sparks, or flames.
Advice for firefighters	Wear full protective clothing and self-contained breathing apparatus when fighting fires involving this substance.

Accidental safety measures

Personal precautions	Wear appropriate personal protective equipment, including gloves, eye protection, and respiratory protection. Evacuate the area of all unnecessary personnel.
Environmental precautions	Contain and prevent spillage from entering watercourses or drainage systems.
Cleanup procedures	Contain the spill and absorb with an inert material, such as sand or vermiculite. Place the material into a container and dispose of it in accordance with local regulations.

Handling and storage

Handling	Avoid contact with skin, eyes, and clothing. Use only in well-ventilated areas. Keep away from heat, sparks, and flames.
Storage	Store in a cool, dry, well-ventilated area away from heat sources and incompatible materials.

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Exposure controls and personal protection

Control parameters	• ACGIH TLV: 1000 ppm (TWA) • OSHA PEL: 1000 ppm (TWA)
Engineering controls	Use in a well-ventilated area or use local exhaust ventilation to maintain airborne concentrations below exposure limits.
Personal protective Equipment	• Eye protection: wear safety glasses or a face shield. • Skin protection: wear appropriate protective gloves and protective clothing. • Respiratory protection: in case of insufficient ventilation, wear a respirator with an organic vapor cartridge.

Physical and chemical properties

Physical appearance	Clear, colorless liquid
Odor	Characteristic odor
Boiling point	78.5 °C
Melting/freezing point	-114 °C
Flash point	12.8 °C
Auto-ignition temperature	363 °C
Upper/lower flammability or explosive limits	Lower: 3.3% Upper: 19%
Vapor pressure	44.6 kPa
Density	0.789 g/cm^3

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Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Ethanol may react with strong oxidizing agents, such as chlorine, bromine, or iodine, to produce flammable and explosive compounds.
Conditions to avoid	Keep away from heat, sparks, and flames.
Incompatible materials	Ethanol is incompatible with strong oxidizing agents, such as chlorine, bromine, or iodine.
Hazardous decomposition products	When heated to decomposition, ethanol may produce carbon monoxide and carbon dioxide.

Toxicological information

Acute toxicity	• Oral: LD50 (rat): 7,060 mg/kg • Dermal: LD50 (rabbit): >5,000 mg/kg • Inhalation: LC50 (rat): 124,000 ppm/4 hours
Chronic toxicity	Long-term exposure to ethanol may cause damage to the liver, nervous system, and other organs.

Ecological information

Ethanol is toxic to aquatic life. It is readily biodegradable and has a low potential for bioaccumulation. Ethanol may move rapidly through soil and contaminate groundwaters. It is not considered to be a PBT or vPvB substance.

Disposal considerations

Dispose of ethanol in accordance with local regulations. Do not pour down drains or dispose of in water sources.

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Transport information

UN number and proper shipping name: UN1170 - ethanol. Transport hazard class 3, packing group II. Hanle and transport in accordance with local regulations.

Regulatory information

- REACH Regulation (EC) No. 1907/2006
- OSHA Hazard Communication Standard (29 CFR 1910.1200)
- European Union Directive 67/548/EEC
- European Union Classification, Labelling and Packaging Regulation (EC) No. 1272/2008

Other information

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6. eDNA preservation buffer (S6)

Identification of the product and of the company

Product name: eDNA preservation buffer (S6)

Product number: SYL002-S6

Supplier: Sylphium Molecular Ecology
Diamantlaan 6b
9743 BG Groningen
+31 6824 26444
info@sylphium.com

Composition and information on ingredients

Chemical name: TE buffer

Contents: Mixture of Tris (10 mM) and EDTA (1mM) in deionized water

Hazards identification

Not classified as hazardous according to Regulation (EC) No. 1272/2008.

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First aid measures

Inhalation	Move to fresh air. If symptoms persist, seek medical advice/attention.
Skin contact	Wash with plenty of soap and water. If skin irritation occurs, seek medical advice/attention.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, seek medical advice/attention.
Ingestion	Rinse mouth. Do NOT induce vomiting. If you feel unwell, seek medical advice/attention.

Fire-fighting measures

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide for extinguishing.
Special hazards arising from the substance or mixture	None known
Advice for firefighters	Wear self-contained breathing apparatus and protective suit.

Accidental safety measures

Personal precautions	Wear protective clothing and equipment. Avoid breathing mist, vapours, or spray.
Cleanup procedures	Methods for cleaning up: Soak up with inert absorbent material and dispose of according to local regulations.

Handling and storage

Handling	Avoid breathing mist, vapours, or spray.
Storage	Store in a cool, dry place.

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Exposure controls and personal protection

Control parameters	No specific occupational exposure limits have been established for this product.
Exposure controls	Use appropriate engineering controls (e.g. fume hoods) to minimize exposure to the product. Wear appropriate personal protective equipment, including gloves, goggles, and lab coats.

Physical and chemical properties

Physical appearance	Clear, colorless liquid
Odor	Odorless
pH	8.0-8.5
Boiling point	100 °C
Melting/freezing point	-114 °C
Flammability	Non-flammable
Density	1.0 g/cm^3
Solubility	Soluble in water
Flash point	N/A
Auto-ignition temperature	N/A
Upper/lower flammability or explosive limits	N/A
Vapor pressure	N/A
Vapor density	N/A
Partition coefficient (n-octanol/water)	N/A

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Stability and reactivity

Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	The product is stable under normal conditions of use, storage and transport.
Possibility of hazardous reactions	No hazardous reactions are known or expected to occur.
Conditions to avoid	Avoid heat sources and direct sunlight. Keep the product tightly closed when not in use.
Incompatible materials	No incompatible materials are known.
Hazardous decomposition products	No hazardous decomposition products are expected to be formed under normal conditions of use.

Toxicological information

This product has not been tested for toxicological effects. However, it is not expected to cause significant health hazards under normal conditions of use.

Ecological information

TE buffer is not considered hazardous to the environment.

Disposal considerations

Dispose of according to local, state, and federal regulations.

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Transport information

Not regulated for transport.

Regulatory information

This product is not classified according to the EU regulations.

This product is not subject to reporting requirements under the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

Other information

The information provided in this Material Safety Data Sheet is believed to be accurate and reliable, but is provided without warranty, express or implied, regarding its correctness or accuracy. The user assumes all risks associated with the use of this product.

Disclaimer: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use and handling of this product. The information provided in this MSDS is believed to be accurate and reliable, but is provided without warranty, express or implied, regarding its correctness or accuracy. The user assumes all risks associated with the use of this product. The user is responsible for ensuring that this MSDS is read and understood by all persons who may come in contact with the product. If clarification or further information is needed, please contact us.

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