



Sylphium

molecular ecology

Material Safety Data Sheet

Phase separation solution (S2)

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Version 1

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SECTION 1: Identification of the product and of the company

Product name: **Phase separation solution (S2)**

Product number: SYL002-S2

Supplier: Sylphium Life Sciences
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SECTION 2: Composition and information on ingredients

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

SECTION 3: Hazards identification

Precautionary statements	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

SECTION 4: First aid measures

First Aid instructions for exposure

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.

SECTION 5: Fire-fighting measures

Fire hazards and safety information

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.

SECTION 6: Accidental safety measures

Safety measures and precautions

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.

SECTION 7: Handling and storage

Storage and handling precautions

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.

SECTION 8: Exposure controls and personal protection

Workplace safety and PPE guidelines

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

SECTION 9: 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

SECTION 10: Stability and reactivity

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.

SECTION 11: Toxicological information

Irritation and toxicity details	Chloroform	Isoamylalcohol
Acute toxicity	LD50 (rat, oral) 4000 mg/kg	LD50 (rat, oral) 2600 mg/kg
Skin corrosion or irritation	May cause skin irritation.	May cause skin irritation.
Serious eye damage or irritation	May cause eye irritation.	May cause eye irritation.

SECTION 12: Ecological information

Ecotoxicity: the mixture may be harmful to aquatic life.

SECTION 13: Disposal considerations

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

SECTION 14: Transport information

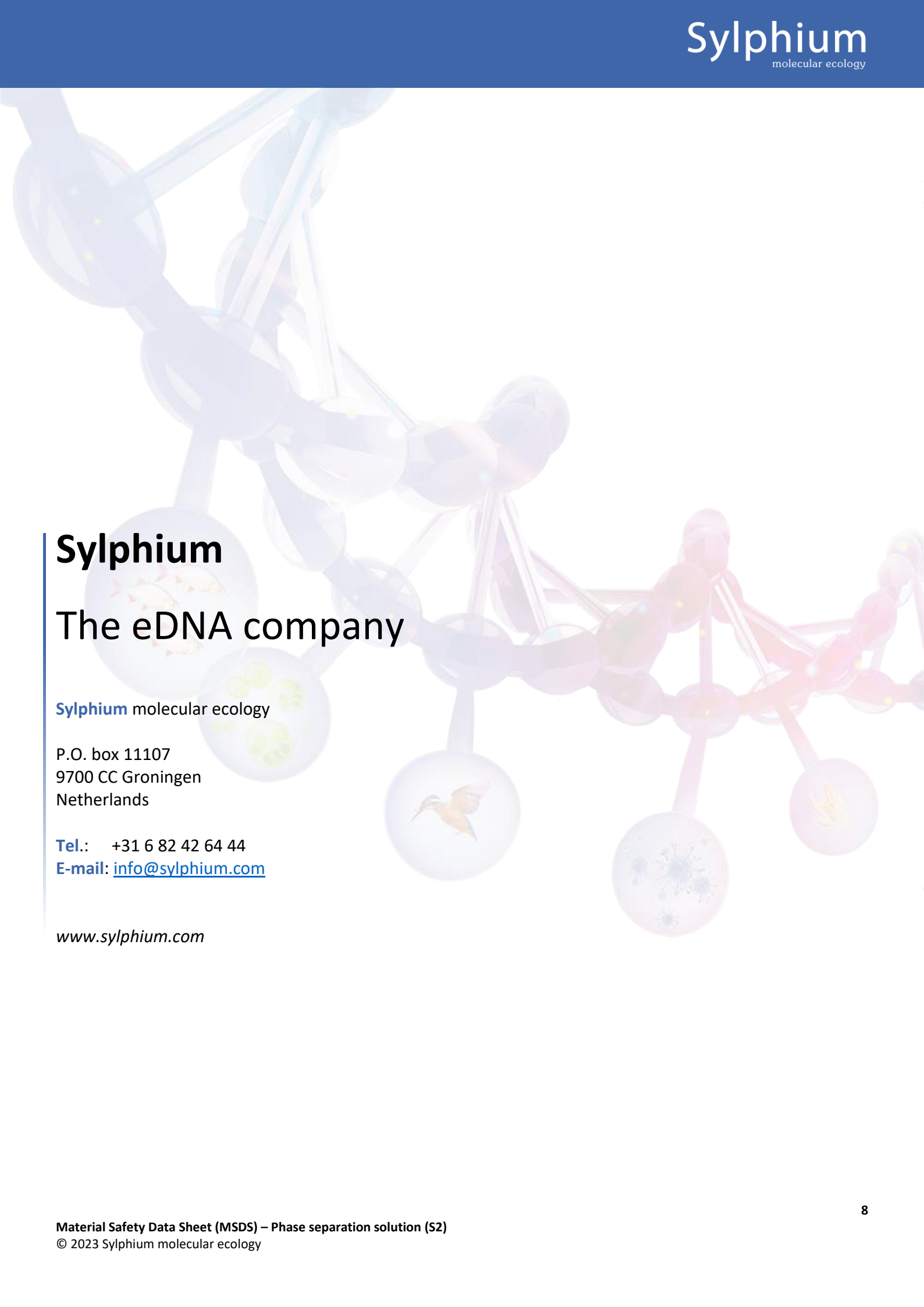
UN number: UN1888 Shipping name: Chloroform, with no more than 0.5% alcohol Transport hazard class(es): 6.1 Packing group: II Environmental hazards: marine pollutant.

SECTION 15: 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.

SECTION 16: Other information

The information provided in this Material Safety Data Sheet is believed to be accurate and reliable, but no representation, guarantee or warranties of any kind are made to its accuracy, reliability, or completeness. The information is offered solely for your consideration, investigation, and verification. Any use of this information and data must be determined by the user to be in accordance with applicable federal, state, and local laws and regulations.



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