

# Sylphium

molecular ecology



## Material Safety Data Sheet

Wash solution (S5)

May 10, 2023

Document date: 13 March 2025  
Version 1

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## SECTION 1: Identification of the product and of the company

Product name: **Wash solution (S5)**

Product number: SYL002-S5

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

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

## SECTION 3: Hazards identification

GHS classification:

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

### Hazards statements

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

### 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

#### Precautionary statements continued

- **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 CO<sub>2</sub>, dry chemical, or foam for extinction.
- **P337+P313:** If eye irritation persists: Get medical advice/attention.

## SECTION 4: First aid measures

#### First Aid instructions for exposure

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.

## SECTION 5: Fire-fighting measures

#### Fire hazards and safety information

Suitable extinguishing media	Dry chemical, carbon dioxide (CO <sub>2</sub> ), 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.

## SECTION 6: Accidental safety measures

### Safety measures and precautions

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.

## SECTION 7: Handling and storage

### Storage and handling precautions

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.

## SECTION 8: Exposure controls and personal protection

### Workplace safety and PPE guidelines

Control parameters	<ul style="list-style-type: none"> <li>• ACGIH TLV: 1000 ppm (TWA)</li> <li>• OSHA PEL: 1000 ppm (TWA)</li> </ul>
Engineering controls	Use in a well-ventilated area or use local exhaust ventilation to maintain airborne concentrations below exposure limits.
Personal protective Equipment	<ul style="list-style-type: none"> <li>• Eye protection: wear safety glasses or a face shield.</li> <li>• Skin protection: wear appropriate protective gloves and protective clothing.</li> <li>• Respiratory protection: in case of insufficient ventilation, wear a respirator with an organic vapor cartridge.</li> </ul>

## SECTION 9: Physical and chemical properties

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 <sup>3</sup>

## SECTION 10: Stability and reactivity

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.

## SECTION 11: Toxicological information

Irritation and toxicity details	
Acute toxicity	<ul style="list-style-type: none"> <li>Oral: LD50 (rat): 7,060 mg/kg</li> <li>Dermal: LD50 (rabbit): &gt;5,000 mg/kg</li> <li>Inhalation: LC50 (rat): 124,000 ppm/4 hours</li> </ul>
Chronic toxicity	Long-term exposure to ethanol may cause damage to the liver, nervous system, and other organs.

Ethanol is not considered to be a carcinogen or mutagen. It may cause birth defects and developmental toxicity in humans.

## SECTION 12: Ecological information

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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.

## SECTION 13: Disposal considerations

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

## SECTION 14: Transport information

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

## SECTION 15: Regulatory information

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

- 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

## SECTION 16: Other information

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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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