

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

|                               |  |
|-------------------------------|--|
| Product name                  | <b>HiTrap™ MabSelect™ mild elution, 1 x 5 ml</b> |
| Catalogue Number              | 17542353   |
| UFI                           | 11M0-C0MN-G002-UGWY                              |
| Product description           | Not available.                                   |
| Product type                  | Liquid.  |
| Other means of identification | Not available.                                   |



9 0 1 7 5 4 2 3 5 3

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Identified uses

Laboratory chemicals  
Liquid chromatography.  
Scientific research and development  
Consumer use

-

### 1.3 Details of the supplier of the safety data sheet

|  |   |  |
|--|---|--|
| <u>Supplier</u>  | Cytiva<br>Amersham Place<br>Little Chalfont<br>Buckinghamshire<br>HP7 9NA United Kingdom<br>+44 1494 508000 | <u>Hours of operation</u><br>08.30 - 17.00 |
| <b>Person who prepared the SDS :</b> sds_author@cytiva.com |   |  |

### 1.4 Emergency telephone number

|               |  |                   |
|---------------|--|-------------------|
| <b>Europe</b> | Cytiva Germany/Europe<br>Munzinger Str. 5<br>79111 Freiburg<br>Germany<br>t: +49 (0)761 4543 0 | +49 (0)761 4543 0 |
|---------------|--|-------------------|

### National advisory body/Poison Centre

|               |   |
|---------------|---|
| <b>Europe</b> | <a href="https://syntecshop.com/wp-content/uploads/Emergency-Phone-numbers-EU.pdf">https://syntecshop.com/wp-content/uploads/Emergency-Phone-numbers-EU.pdf</a> |
|---------------|---|

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** Mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity** 16.5 percent of the mixture consists of component(s) of unknown acute dermal toxicity

**Ingredients of unknown ecotoxicity** Not applicable.



See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

## 2.2 Label elements

### Hazard pictograms



**Signal word** Warning

**Hazard statements** Flammable liquid and vapour.

### Precautionary statements

**General** Not applicable.

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

**Response** Not applicable.

**Storage** Not applicable.

**Disposal** Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements** Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** Not applicable.

### Special packaging requirements

**Containers to be fitted with child-resistant fastenings** Not applicable.

**Tactile warning of danger** Not applicable.

## 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Mixture

| Product/ingredient name | Identifiers   | %       | Classification<br>Regulation (EC) No. 1272/2008 [CLP]   | Type |
|-------------------------|---|---------|---|------|
| ethanol                 | REACH #: 01-2119457610-43<br>EC: 200-578-6<br>CAS: 64-17-5<br>Index: 603-002-00-5 | 14 - 19 | Flam. Liq. 2, H225<br>-<br>See Section 16 for the full text of the H statements declared above. | [1]  |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### Type

[1] Substance classified with a physical, health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.



## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|                                   |   |
|-----------------------------------|---|
| <b>Eye contact</b>                | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.                           |
| <b>Inhalation</b>                 | Remove victim to fresh air and keep at rest in a position comfortable for breathing.  |
| <b>Skin contact</b>               | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  |
| <b>Ingestion</b>                  | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. |
| <b>Protection of first-aiders</b> | No action shall be taken involving any personal risk or without suitable training.  |

### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

|                     |                   |
|---------------------|-------------------|
| <b>Eye contact</b>  | No specific data. |
| <b>Inhalation</b>   | No specific data. |
| <b>Skin contact</b> | No specific data. |
| <b>Ingestion</b>    | No specific data. |

### 4.3 Indication of any immediate medical attention and special treatment needed

|                            |   |
|----------------------------|---|
| <b>Notes to physician</b>  | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| <b>Specific treatments</b> | No specific treatment.  |

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                                     |  |
|-------------------------------------|--|
| <b>Suitable extinguishing media</b> | Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam. |
|-------------------------------------|--|

|                                       |                       |
|---------------------------------------|-----------------------|
| <b>Unsuitable extinguishing media</b> | Do not use water jet. |
|---------------------------------------|-----------------------|

### 5.2 Special hazards arising from the substance or mixture

|  |  |
|--|--|
| <b>Hazards from the substance or mixture</b> | Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. |
| <b>Hazardous combustion products</b>         | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide   |

### 5.3 Advice for firefighters

|   |   |
|---|---|
| <b>Special precautions for fire-fighters</b>          | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.                                      |
| <b>Special protective equipment for fire-fighters</b> | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

|                                    |   |
|------------------------------------|---|
| <b>For non-emergency personnel</b> | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment. |
| <b>For emergency responders</b>    | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".   |

|                                      |   |
|--------------------------------------|---|
| <b>6.2 Environmental precautions</b> | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
|--------------------------------------|---|

### 6.3 Methods and material for containment and cleaning up

|                    |   |
|--------------------|---|
| <b>Small spill</b> | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
|--------------------|---|



|  |  |
|--|--|
| <b>Large spill</b>                     | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. |
| <b>6.4 Reference to other sections</b> | See Section 1 for emergency contact information.<br>See Section 8 for information on appropriate personal protective equipment.<br>See Section 13 for additional waste treatment information.  |

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

|   |   |
|---|---|
| <b>Protective measures</b>                    | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| <b>Advice on general occupational hygiene</b> | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.   |

### 7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. See Section 10 for incompatible materials before handling or use.

#### Seveso Directive - Reporting thresholds (in tonnes)

##### Danger criteria

| Category | Notification and MAPP threshold | Safety report threshold |
|----------|---------------------------------|-------------------------|
| P5c      | 5000                            | 50000                   |

### 7.3 Specific end use(s)

|   |   |
|---|---|
| <b>Recommendations</b>                      | Analytical chemistry. Liquid chromatography. Scientific research and development. |
| <b>Industrial sector specific solutions</b> | Not available.  |

## SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

#### Biological exposure indices

No exposure indices known.

|  |   |
|--|---|
| <b>Recommended monitoring procedures</b> | Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required. |
|--|---|

#### DNELs/DMELs



| Product/ingredient name | Result   |
|-------------------------|--|
| ethanol                 | <b>DNEL - Workers - Long term - Inhalation</b><br>380 mg/m <sup>3</sup><br><u>Effects:</u> Systemic            |
|                         | <b>DNEL - General population - Long term - Oral</b><br>87 mg/kg bw/day<br><u>Effects:</u> Systemic             |
|                         | <b>DNEL - General population - Long term - Inhalation</b><br>114 mg/m <sup>3</sup><br><u>Effects:</u> Systemic |
|                         | <b>DNEL - General population - Long term - Dermal</b><br>206 mg/kg bw/day<br><u>Effects:</u> Systemic          |
|                         | <b>DNEL - Workers - Long term - Dermal</b><br>343 mg/kg bw/day<br><u>Effects:</u> Systemic                     |
|                         | <b>DNEL - General population - Short term - Inhalation</b><br>950 mg/m <sup>3</sup><br><u>Effects:</u> Local   |
|                         | <b>DNEL - Workers - Short term - Inhalation</b><br>1900 mg/m <sup>3</sup><br><u>Effects:</u> Local             |

**PNECs**

Not available.

## 8.2 Exposure controls

### Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### Individual protection measures

#### Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: safety glasses with side-shields

#### Skin protection

##### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. 1 - 4 hours (breakthrough time): butyl rubber, neoprene

##### Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. Recommended: lab coat

##### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: A respirator is not needed under normal and intended conditions of product use.

#### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.



9 5 1 7 5 4 2 3 5 3

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

|   |                            |
|---|----------------------------|
| <b>Physical state</b>   | Liquid.                    |
| <b>Colour</b>   | White. White to yellowish. |
| <b>Odour</b>  | Alcohol-like. [Slight]     |
| <b>Odour threshold</b>  | 180 ppm                    |
| <b>Melting point/freezing point</b>                             | Not available.             |
| <b>Boiling point or initial boiling point and boiling range</b> | Not available.             |
| <b>Flammability</b>   | Not available.             |
| <b>Lower and upper explosion limit</b>                          | Not available.             |

**Flash point** Closed cup: 38 to 43°C

**Auto-ignition temperature** Not available.

| Ingredient name | °C  | Method    |
|-----------------|-----|-----------|
| ethanol         | 455 | DIN 51794 |

**Decomposition temperature** Not available.

**pH** 5.5 to 8.5 [Conc. (% w/w): 100%]

**Viscosity** Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C): Not available.

#### **Solubility**

| Media      | Result         |
|------------|----------------|
| cold water | Easily soluble |
| hot water  | Easily soluble |

**Solubility in water** Not available.

**Partition coefficient: n-octanol/water** Not applicable.

**Vapour pressure** Not available.

| Ingredient name | Vapour Pressure at 20°C |     |        | Vapour pressure at 50°C |     |        |
|-----------------|-------------------------|-----|--------|-------------------------|-----|--------|
|                 | mm Hg                   | kPa | Method | mm Hg                   | kPa | Method |
| ethanol         | 42.94865                | 5.7 |        |                         |     |        |
| water           | 17.5                    | 2.3 |        |                         |     |        |
| Agarose         | 0                       | 0   |        |                         |     |        |

**Relative density** Not available.

**Relative vapour density** Not available.

#### Particle characteristics

**Median particle size** Not applicable.

## 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

**Burning time** Not applicable.

**Burning rate** Not applicable.

**Explosive properties** Not available.

**Oxidising properties** Not available.

### 9.2.2 Other safety characteristics

**Miscible with water** Yes.

**Evaporation rate** Not available.



## SECTION 10: Stability and reactivity

|  |   |
|--|---|
| <b>10.1 Reactivity</b>                         | No specific test data related to reactivity available for this product or its ingredients.  |
| <b>10.2 Chemical stability</b>                 | The product is stable.  |
| <b>10.3 Possibility of hazardous reactions</b> | Under normal conditions of storage and use, hazardous reactions will not occur.   |
| <b>10.4 Conditions to avoid</b>                | Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| <b>10.5 Incompatible materials</b>             | Reactive or incompatible with the following materials:<br>oxidising materials   |
| <b>10.6 Hazardous decomposition products</b>   | Under normal conditions of storage and use, hazardous decomposition products should not be produced.  |

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

| Product/ingredient name | Result   |
|-------------------------|--|
| ethanol                 | <b>Rat - Oral - LD50</b><br>7060 mg/kg<br><u>Toxic effects:</u> Lung, Thorax, or Respiration - Other changes |
|                         | <b>Rat - Inhalation - LC50 Vapour</b><br>124700 mg/m <sup>3</sup> [4 hours]                                  |

**Conclusion/Summary [Product]** Not available.

#### Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| ethanol                 | 7000         | N/A            | N/A                      | 124.7                       | N/A                                 |

#### Skin corrosion/irritation

Not available.

**Conclusion/Summary [Product]** Repeated exposure may cause skin dryness or cracking.

#### Serious eye damage/eye irritation

Not available.

**Conclusion/Summary [Product]** Not available.

#### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** Not available.

#### Respiratory or skin sensitization

Not available.

#### Skin

**Conclusion/Summary [Product]** Not available.

#### Respiratory

**Conclusion/Summary [Product]** Not available.

#### Germ cell mutagenicity

Not available.

**Conclusion/Summary [Product]** Not available.

#### Carcinogenicity

Not available.



**Conclusion/Summary [Product]** Not available.

**Reproductive toxicity**

Not available.

**Conclusion/Summary [Product]** Not available.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on likely routes of exposure** Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

**Potential acute health effects**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | No known significant effects or critical hazards. |
| <b>Ingestion</b>    | No known significant effects or critical hazards. |
| <b>Skin contact</b> | No known significant effects or critical hazards. |
| <b>Eye contact</b>  | No known significant effects or critical hazards. |

**Symptoms related to the physical, chemical and toxicological characteristics**

|                     |                   |
|---------------------|-------------------|
| <b>Inhalation</b>   | No specific data. |
| <b>Ingestion</b>    | No specific data. |
| <b>Skin contact</b> | No specific data. |
| <b>Eye contact</b>  | No specific data. |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Short term exposure**

**Potential immediate effects** Not available.

**Potential delayed effects** Not available.

**Long term exposure**

**Potential immediate effects** Not available.

**Potential delayed effects** Not available.

**Potential chronic health effects**

Not available.

**Conclusion/Summary [Product]** Not available.

|                              |   |
|------------------------------|---|
| <b>General</b>               | No known significant effects or critical hazards. |
| <b>Carcinogenicity</b>       | No known significant effects or critical hazards. |
| <b>Mutagenicity</b>          | No known significant effects or critical hazards. |
| <b>Reproductive toxicity</b> | No known significant effects or critical hazards. |

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 11.2.2 Other information

Not available.



## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product/ingredient name

ethanol

#### Result

**Acute - LC50 - Marine water**  
 Fish - Bleak - *Abrunus alburnus*  
 Size: 8 to 10 cm  
 11 g/l [96 hours]  
Effect: Mortality

**Chronic - NOEC - Marine water**  
 Algae - Green algae - *Ulva pertusa*  
 4.995 mg/l [96 hours]  
Effect: Reproduction

**Acute - EC50 - Fresh water**  
 Crustaceans - Ostracod - *Cypris subglobosa*  
 1074 mg/l [48 hours]  
Effect: Intoxication

**Chronic - NOEC - Fresh water**  
 Daphnia - Water flea - *Daphnia magna* - Neonate  
 Age: <24 hours  
 100 µl/l [21 days]  
Effect: Mortality

**Acute - EC50 - Marine water**  
 Algae - Green algae - *Ulva pertusa*  
 Size: 9.4 mm  
 3306 mg/l [96 hours]  
Effect: Reproduction

**Conclusion/Summary [Product]** Not available.

### 12.2 Persistence and degradability

#### Product/ingredient name

ethanol

#### Result

**Aerobic**  
 100% [20 days] - Readily

**Conclusion/Summary [Product]** Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| ethanol                 | -                 | -          | Readily          |

### 12.3 Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF  | Potential |
|-------------------------|--------------------|------|-----------|
| ethanol                 | -0.35              | 0.66 | Low       |

### 12.4 Mobility in soil

#### Soil/water partition coefficient

| Product/ingredient name | logK <sub>oc</sub> | K <sub>oc</sub> |
|-------------------------|--------------------|-----------------|
| ethanol                 | 0.2                | 1.59008         |

#### Results of PMT and vPvM assessment

| Product/ingredient name   | PMT   | P   | M   | T  | vPvM | vP  | vM  |
|---------------------------|---|-----|-----|----|------|-----|-----|
| ethanol                   | No  | N/A | Yes | No | N/A  | N/A | Yes |
| <b>Mobility</b>           | Not available.  |     |     |    |      |     |     |
| <b>Conclusion/Summary</b> | The product does not meet the criteria to be considered as a PMT or vPvM. |     |     |    |      |     |     |

### 12.5 Results of PBT and vPvB assessment

#### Regulation (EC) No. 1907/2006 [REACH]

| Product/ingredient name | PBT | P   | B  | T  | vPvB | vP  | vB |
|-------------------------|-----|-----|----|----|------|-----|----|
| ethanol                 | No  | N/A | No | No | No   | N/A | No |

#### Regulation (EC) No. 1272/2008 [CLP]

| Product/ingredient name | PBT | P   | B  | T  | vPvB | vP  | vB |
|-------------------------|-----|-----|----|----|------|-----|----|
| ethanol                 | No  | N/A | No | No | No   | N/A | No |

**Conclusion/Summary** The product does not meet the criteria to be considered as a PBT or vPvB.

**Regulation (EC) No. 1272/2008 [CLP]**

### 12.6 Endocrine disrupting properties



Not applicable.

**Conclusion/Summary [Product]** The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

## 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

|                            |   |
|----------------------------|---|
| <b>Methods of disposal</b> | Dispose of contents and container in accordance with all local, regional, national and international regulations. Avoid release to the environment. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. |
| <b>Hazardous waste</b>     | Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.   |

#### European waste catalogue (EWC)

| Waste code | Waste designation              |
|------------|--------------------------------|
| 07 07 99   | wastes not otherwise specified |

#### Packaging

|                            |   |
|----------------------------|---|
| <b>Methods of disposal</b> | The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.  |
| <b>Special precautions</b> | This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. |

## SECTION 14: Transport information

|  | ADR/RID        | ADN            | IMDG           | IATA   |
|--|----------------|----------------|----------------|--|
| <b>14.1 UN number</b>                  | Not regulated. | Not regulated. | Not regulated. | Not regulated.   |
| <b>14.2 UN proper shipping name</b>    | -              | -              | -              | -  |
| <b>14.3 Transport hazard class(es)</b> | -              | -              | -              | -  |
| <b>14.4 Packing group</b>              | -              | -              | -              | -  |
| <b>14.5 Environmental hazards</b>      | No.            | No.            | No.            | No.  |
| <b>Additional information</b>          | -              | -              | -              | <b>Remarks</b> IATA Special Provision A 58 - Aqueous solutions containing 24% or less alcohol by volume is not subject to these regulations. |

**14.6 Special precautions for user** **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to IMO instruments** Not available.



## SECTION 15: Regulatory information

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorisation

##### **Annex XIV**

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

#### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

| Product/ingredient name                 | %   | Designation [Usage] |
|---|-----|---------------------|
| HiTrap MabSelect mild elution, 1 x 5 ml | ≥90 | 3                   |

**Labelling** Not applicable.

#### Synthetic polymer microparticles - Designation 78

**Generic identity of polymer(s)** Chemically modified agarose

**Total percentage of synthetic polymer microparticles** 100%

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

#### Other EU regulations

**Industrial emissions (integrated pollution prevention and control) - Air** Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** Not listed

**Explosive precursors** Not applicable.

#### Ozone depleting substances (EU 2024/590)

Not listed.

#### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

#### Persistent Organic Pollutants

Not listed.

#### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

##### **Category**

P5c

#### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

#### Inventory list

**United States** Not determined.

**Canada inventory** All components are listed or exempted.



9 5 1 7 5 4 2 3 5 3

|  |   |
|--|---|
| <b>China</b>                           | All components are listed or exempted.  |
| <b>Japan</b>                           | <b>Japan inventory (CSCL):</b> All components are listed or exempted.<br><b>Japan inventory (ISHL):</b> Not determined. |
| <b>15.2 Chemical safety assessment</b> | This product contains substances for which Chemical Safety Assessments are still required.                              |

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

|                                   |   |
|-----------------------------------|---|
| <b>Abbreviations and acronyms</b> | ATE = Acute Toxicity Estimate<br>CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]<br>DMEL = Derived Minimal Effect Level<br>DNEL = Derived No Effect Level<br>EUH statement = CLP-specific Hazard statement<br>N/A = Not available<br>PBT = Persistent, Bioaccumulative and Toxic<br>PNEC = Predicted No Effect Concentration<br>RRN = REACH Registration Number<br>vPvB = Very Persistent and Very Bioaccumulative |
|-----------------------------------|---|

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification     | Justification         |
|--------------------|-----------------------|
| Flam. Liq. 3, H226 | On basis of test data |

**Full text of abbreviated H statements** H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.

**Full text of classifications [CLP/ GHS]** Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2  
Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3

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**Date of issue/ Date of revision** 27 October 2025

**Date of previous issue** No previous validation

**Version** 1

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

