

# Material Safety Data Sheet

## 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

|                    |                                                                                                                                                                                                        |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name       | Carbotrace 680 DMSO                                                                                                                                                                                    |
| Product code (SKU) | C680-D                                                                                                                                                                                                 |
| CAS number         | N/A                                                                                                                                                                                                    |
| Chemical formula   | N/A                                                                                                                                                                                                    |
| Relevant uses      | For research use only                                                                                                                                                                                  |
| Supplier           | Ebba Biotech AB,<br>Karolinska Institutet Science Park, Nobels väg 16<br>SE-171 65 Solna, Sweden<br>Email: <a href="mailto:info@ebbabiotech.com">info@ebbabiotech.com</a><br>Tel: +46 (0) 73 985 40 51 |

## 2. HAZARD IDENTIFICATION

|                |                                                                                                                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification | Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008, EC-directives 67/548/EEC, or 1999/45/EC                                                                               |
| Label elements | Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008, EC-directives 67/548/EEC, or 1999/45/EC                                                                               |
| Other hazards  | This substance or 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. |

## 3. INFORMATION ON INGREDIENTS

| Component                                                                 | CAS number | Concentration | Classification |
|---------------------------------------------------------------------------|------------|---------------|----------------|
| Carbotrace 680                                                            | N/A        | 0,1 % w/v     | *              |
| Dimethyl Sulfoxide                                                        | 67-68-5    | 96 % v/v      | *              |
| Hydrochloric acid                                                         | 7647-01-0  | 0,15 % w/v    | *              |
| * Not a hazardous substance or mixture according to applicable Regulation |            |               |                |

## 4. FIRST AID PROCEDURES

|                                                                        |                                                                               |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Description of first aid measures                                      |                                                                               |
| General advice                                                         | Consult a physician. Show this safety data sheet to the doctor in attendance. |
| After inhalation                                                       | Fresh Air                                                                     |
| After skin contact                                                     | Remove contaminated clothing. Rinse with water.                               |
| After eye contact                                                      | Rinse with plenty of water. Remove contact lenses.                            |
| After ingestion                                                        | Rinse mouth with excess of water.                                             |
| Most important symptoms and effects, both acute and delayed            |                                                                               |
| No data available                                                      |                                                                               |
| Indication of immediate medical attention and special treatment needed |                                                                               |
| No data available                                                      |                                                                               |

## 5. FIRE FIGHTING MEASURES

### Address

Ebba Biotech AB  
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|                                |                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Extinguishing media</b>     | Carbon dioxide, alcohol resistant foam, dry chemical powder, or water spray.                           |
| <b>Special hazards</b>         | Carbon monoxide, Nitrogen oxides (NO <sub>x</sub> ), Sulphur oxides (SO <sub>x</sub> )                 |
| <b>Advice for firefighters</b> | Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. |
| <b>Further information</b>     | Prevent fire extinguishing water from contaminating surface water or the ground water system.          |

### 6. ACCIDENTAL RELEASE MEASURES

|                                                                                                                                                                                                                          |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Personal precautions, protective equipment, and emergency procedures</b>                                                                                                                                              |  |
| Evacuate area. Ensuring personal safety, mark out contaminated area with signs and prevent unauthorized access. Personal involved in clean up should wear appropriate personal protective equipment (see section 8).     |  |
| <b>Environmental precautions</b>                                                                                                                                                                                         |  |
| Do not let product enter drains.                                                                                                                                                                                         |  |
| <b>Methods and materials for containment and cleaning up</b>                                                                                                                                                             |  |
| Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area. |  |
| <b>Reference to other sections</b>                                                                                                                                                                                       |  |
| See sections 7, 8, 10 and 13.                                                                                                                                                                                            |  |

### 7. HANDLING AND STORAGE

|                                                                                                 |                    |
|-------------------------------------------------------------------------------------------------|--------------------|
| <b>Precautions for safe handling</b>                                                            |                    |
| Avoid direct contact with skin and eyes. Avoid ingestion and avoid inhalation of vapor or mist. |                    |
| <b>Conditions for safe storage, including any incompatibilities</b>                             |                    |
| <b>Storage conditions</b>                                                                       | Tightly closed     |
| <b>Storage temperature</b>                                                                      | 2-8 °C             |
| <b>Specific end uses</b>                                                                        | For laboratory use |

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

|                                      |                                                                                                                                                                                                                                |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Control parameters</b>            |                                                                                                                                                                                                                                |
| No data available.                   |                                                                                                                                                                                                                                |
| <b>Exposure controls</b>             |                                                                                                                                                                                                                                |
| <b>Personal protective equipment</b> |                                                                                                                                                                                                                                |
| Respiratory protection               | Where risk-assessment shows air-purifying respirators are appropriate, use an appropriate dust-mask. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| Hand protection                      | Wear suitable gloves satisfying the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. In addition, gloves with EN 420, EN 455 specifications could be used.                                   |
| Eye protection                       | Wear chemical safety goggles. Avoid all hand-to-eye contact before gloves are removed and hands washed.                                                                                                                        |
| Skin protection                      | Wear appropriate protective clothing (lab coats etc.) according to the amount and concentration of the dangerous substance at the workplace.                                                                                   |

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|                                     |                                                                           |
|-------------------------------------|---------------------------------------------------------------------------|
| General hygiene measures            | Wash thoroughly after handling. Immediately change contaminated clothing. |
| <b>Ecological exposure controls</b> |                                                                           |
| No data available.                  |                                                                           |

### 9. PHYSICAL AND CHEMICAL PROPERTIES

| Information on basic physical and chemical properties |               |
|-------------------------------------------------------|---------------|
| Appearance                                            | Liquid        |
| Odour                                                 | Not available |
| Odour threshold                                       | Not available |
| pH                                                    | Not available |
| Melting point/freezing point                          | Not available |
| Initial boiling point/boiling range                   | Not available |
| Flash point                                           | Not available |
| Evaporation rate                                      | Not available |
| Flammability                                          | Not available |
| Upper/lower flammability or explosive limits          | Not available |
| Vapor pressure                                        | Not available |
| Relative density                                      | Not available |
| Solubility in water                                   | Soluble       |
| Partition coefficient: n-octanol/water                | Not available |
| Auto-ignition temperature                             | Not available |
| Viscosity                                             | Not available |
| Explosive properties                                  | Not available |
| Oxidizing properties                                  | Not available |
| <b>Other information</b>                              |               |
| No further data available.                            |               |

### 10. STABILITY AND REACTIVITY

|                                    |                                                                                       |
|------------------------------------|---------------------------------------------------------------------------------------|
| Reactivity                         | No data available                                                                     |
| Chemical stability                 | Stable under the recommended storage conditions, pH>6, as well as boiling up to 100°C |
| Possibility of hazardous reactions | Violent reactions possible with the generally known reaction partners of water.       |
| Conditions to avoid                | Avoid heating under conditions that will cause the solvent to evaporate               |
| Incompatible materials             | No data available                                                                     |
| Hazardous decomposition products   | No data available                                                                     |

### 11. TOXICOLOGICAL INFORMATION

|                           |                   |
|---------------------------|-------------------|
| Acute toxicity            | No data available |
| Skin corrosion/irritation | No data available |

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|---------------------------------------------|--------------------|
| Serious eye damage/irritation               | No data available  |
| Respiratory or skin sensitisation           | No data available  |
| Germ cell mutagenicity                      | No data available  |
| Carcinogenicity                             | Not data available |
| Reproductive toxicity                       | Not data available |
| Summary of evaluation of the CMR properties | Not data available |
| STOT-single exposure                        | Not data available |
| STOT-repeated exposure                      | Not data available |
| Exposure hazard                             |                    |
| Inhalation                                  | No data available  |
| Ingestion                                   | No data available  |
| Skin                                        | No data available  |
| Eyes                                        | No data available  |
| <b>Additional information</b>               |                    |
| RTECS                                       | Not available      |

### 12. ECOLOGICAL INFORMATION

|                                    |                                                                                                                                                                                                    |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| Other adverse effects              | No data available                                                                                                                                                                                  |

### 13. DISPOSAL RECOMMENDATIONS

|                         |
|-------------------------|
| Waste treatment methods |
| No data available       |

### 14. TRANSPORT INFORMATION

|                                                                                                                                                                                                      |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Material is not dangerous goods according to international recommendations on the transport and legislation of dangerous goods relating to road, rail, inland waterways, maritime and air transport. |                     |
| UN-Number                                                                                                                                                                                            | Not dangerous goods |
| UN proper shipping name                                                                                                                                                                              |                     |
| ADR/RID/ADN                                                                                                                                                                                          | Not dangerous goods |
| IATA                                                                                                                                                                                                 | Not dangerous goods |
| Transport hazard classes                                                                                                                                                                             | Not dangerous goods |
| Packaging group                                                                                                                                                                                      | Not dangerous goods |
| Environmental hazards                                                                                                                                                                                | No data available   |
| Special precautions                                                                                                                                                                                  | No data available   |

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|                                                            |                |
|------------------------------------------------------------|----------------|
| Bulk shipment according to Annex II of MARPOL and IBC code | Not applicable |
|------------------------------------------------------------|----------------|

### 15. REGULATORY INFORMATION

| Safety, health, and environmental regulations/legislations specific for the substance or mixture |                |
|--------------------------------------------------------------------------------------------------|----------------|
| <b>EU-Regulations</b>                                                                            |                |
| This safety data sheet complies with the requirement of Regulation (EC) No. 1907/2006            |                |
| (EC) No. 1907/2006, Annex XIV                                                                    | Not applicable |
| (EC) No. 1907/2006, Annex XVII                                                                   | Not applicable |
| Regulation (EC) No. 2037/2000 (Substances which cause the degradation of the ozone layer)        | Not applicable |
| Regulation (EC) No. 850/2004 (Persistent organic substances)                                     | Not applicable |
| Regulation (EC) No. 649/2012 (Export and import of dangerous chemicals)                          | Not applicable |
| Regulation (EC) No. 648/2004 (Regulation of detergents)                                          | Not applicable |
| Restriction pursuant title VII of regulation (EC) No. 1907/2006                                  | Not applicable |
| <b>Chemical safety assessment</b>                                                                |                |
| No chemical safety assessment has been carried out for this substance by the supplier.           |                |

### 16. OTHER INFORMATION

| Abbreviations and acronyms |                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------|
| ADR                        | European agreement concerning the International Carriage of Dangerous Goods by Road                 |
| ADN                        | European agreement concerning the International Carriage of Dangerous Goods by Inland Waterways     |
| CAS                        | Chemical Abstracts Service number                                                                   |
| CLP                        | Classification, Labelling, Packaging                                                                |
| EC Number                  | EINECS and ELINCS number                                                                            |
| EINECS Number              | European Inventory of Existing Commercial Substances                                                |
| ELINCS Number              | European List of notified Chemical Substances                                                       |
| GHS                        | Globally Harmonized System                                                                          |
| IATA                       | International Air Transport Association                                                             |
| IMDG                       | International Maritime Dangerous Goods                                                              |
| IUPAC                      | International Union for Pure Applied Chemistry                                                      |
| REACH                      | Registration, Evaluation, Authorisation and Restriction of Chemicals; Regulation (EC) No. 1907/2006 |
| RID                        | Regulations concerning the International Carriage of Dangerous Goods by Rail                        |
| STOT                       | Specific Target Organ Toxicity                                                                      |

The information given in the safety data sheet only apply to the described product in connection with its appropriate utilization. These particulars are based on our present state of knowledge. In particular, they serve the purpose of describing our product under the aspect of hazard caused by such product and pertaining safety actions. They do not constitute any guarantee of product quality and/or quality features. It shall be used only as guide. The information given in this safety data sheet are required in accordance with article 31 and annex II of the Regulation (EC) 1907/2006.

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