

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name : StemBeads® BDNF

Product code : SBBD1

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

Research only. To be used for in vitro cell culture or in vivo research studies.

**1.3. Details of the supplier of the safety data sheet**StemCultures LLC.  
150 New Scotland Ave  
Albany, NY 12208 USA

Tel: 518-621-0848

**1.4. Emergency telephone number**Emergency number : 1-518-621-0848  
Chief Operating Officer**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GHS-US classification**

Not classified

**2.2. Label elements****GHS-US labelling**

No labeling applicable

**2.3. Other hazards**

No additional information available

**2.4. Unknown acute toxicity (GHS-US)**

Not applicable

**SECTION 3: Composition/information on ingredients****3.1. Substance**

Not applicable

**3.2. Mixture**

This product contains no substances which at their given concentration(S), are considered to be hazardous to health according to criteria of OSHA's hazards communication rule (HazCom 2012).

**SECTION 4: First aid measures****4.1. Description of first aid measures**

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Immediately rinse with plenty of water.
First-aid measures after eye contact	: Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Never give anything by mouth to an unconscious person. Obtain emergency medical attention if symptoms persist.

**4.2. Most important symptoms and effects, both acute and delayed**

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.  
Symptoms/injuries after eye contact : Contact with eye may cause physical irritation.

**4.3. Indication of any immediate medical attention and special treatment needed**

No additional information available

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

- Suitable extinguishing media : Use fire-extinguishing media appropriate for surrounding materials. Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
Unsuitable extinguishing media : None known.

**5.2. Special hazards arising from the substance or mixture**

- Fire hazard : Not flammable or combustible  
Explosion hazard : Not explosive. None of component(s) are classified as explosive or oxidizing.

**5.3. Advice for firefighters**

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.  
Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

- Emergency procedures : Wear personal protective equipment. Stop leak, if possible without risk. Soak up spills with inert absorbant material and properly discard.

**6.1.2. For emergency responders**

- Protective equipment : Equip cleanup crew with proper protection. Stop leak, if possible without risk.  
Emergency procedures : Ventilate area. Soak up spills with absorbant inert materials. If large spill occurs, use inert solids, such as clay or diatomaceous earth as soon as possible. Spilled material may be slippery.

**6.2. Environmental precautions**

No additional information available.

**6.3. Methods and material for containment and cleaning up**

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.  
Other information : Dispose of materials or solid residues at an authorized site.

**6.4. Reference to other sections**

See Heading 8. Exposure controls and personal protection.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area. Keep products in properly labelled containers.  
Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practices.

**7.2. Conditions for safe storage, including any incompatibilities**

- Storage conditions : Keep only in the original container. Keep container closed when not in use. Store in dry environment.  
Incompatible materials : Acids. Bases.

**7.3. Specific end use(s)**

No additional information available

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

Methylene chloride (75-09-2)		
ACGIH	ACGIH TWA (ppm)	50 ppm
OSHA	OSHA PEL (TWA) (ppm)	25 ppm
OSHA	OSHA PEL (STEL) (ppm)	125 ppm (see 29 CFR 1910.1052)

**8.2. Exposure controls**

Appropriate engineering controls

: Provide adequate ventilation.

Personal protective equipment

: Protective goggles. Gloves. Protective clothing.



Hand protection

: Wear protective gloves.

Eye protection

: Chemical goggles or safety glasses.

Respiratory protection

: In case of insufficient ventilation, wear suitable respiratory equipment.

Other information

: Do not eat, drink or smoke during use.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	: Liquid
Appearance	: Slurry - Suspension
Color	: Dark brown
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No applicable
Auto-ignition temperature	: No applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: No applicable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Solubility in water of component(s) of the mixture : • Magnesium hydroxide: 0.009 g/l (at 18 °C)
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive
Oxidising properties	: No applicable
Explosive limits	: No applicable

**9.2. Other information**

No additional information available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No additional information available

**10.2. Chemical stability**

Stable at ambient temperature and under normal conditions of use.

**10.3. Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**10.4. Conditions to avoid**

Avoid exposure to moistures.

**10.5. Incompatible materials**

Acids. Bases.

**10.6. Hazardous decomposition products**

No additional information available.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Acute toxicity : Not classified  
(Based on available data, the classification criteria are not met)

<b>Methylene chloride (75-09-2)</b>	
LD50 oral rat	1600 mg/kg
LC50 inhalation rat (mg/l)	53 mg/l (Exposure time: 6 h)

Skin corrosion/irritation : Not classified  
 Serious eye damage/irritation : Not classified  
 Respiratory or skin sensitisation : Not classified  
 Germ cell mutagenicity : Not classified  
 Carcinogenicity : Not classified  
 (Based on available data, the classification criteria are not met)

<b>Methylene chloride (75-09-2)</b>	
IARC group	2A - Probably carcinogenic to humans
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen

Reproductive toxicity : Not classified  
 Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified  
 Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information****12.1. Toxicity**

<b>Methylene chloride (75-09-2)</b>	
LC50 fish 1	140.8 - 277.8 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	1532 - 1847 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	262 - 855 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	190 mg/l (Exposure time: 48 h - Species: Daphnia magna)

**12.2. Persistence and degradability**

Inherently biodegradable

**12.3. Bioaccumulative potential**

Does not bioaccumulate

<b>Methylene chloride (75-09-2)</b>	
BCF fish 1	6.4 - 40
Log Pow	1.25

**12.4. Mobility in soil**

No additional information available

**12.5. Other adverse effects**

Effect on ozone layer : No additional information available

Effect on the global warming : No additional information available

Other information : Avoid release to the environment.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : This product is inherently Biodegradable.

**SECTION 14: Transport information**

In accordance with DOT

Not regulated for transport

**Additional information**

Other information : No supplementary information available.

**ADR**

No additional information available

**Transport by sea**

No additional information available

**Air transport**

No additional information available

**SECTION 15: Regulatory information****15.1. US Federal regulations**

<b>Methylene chloride (75-09-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on United States SARA Section 313	
SARA Section 313 - Emission Reporting	0.1 %

**15.2. International regulations****CANADA**

<b>Methylene chloride (75-09-2)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

**EU-Regulations**

No additional information available

<b>Methylene chloride (75-09-2)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

Not classified

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

Not classified

**15.2.2. National regulations**

<b>Methylene chloride (75-09-2)</b>
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on the Canadian IDL (Ingredient Disclosure List)

**15.3. US State regulations**

<b>Methylene chloride (75-09-2)</b>				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	200 µg/day

**SECTION 16: Other information**

Revision date : N/A  
Other information : None.

*The information presented herein is believed to be correct but is not purported to be all inclusive and shall be used only as a guide. AMSPEC Chemical shall not be held liable for any damage resulting from handling or from contact with the above product.*