

1. Identification of the substance/preparation and the company undertaking

Identification of the substance/preparation

Product Code: ax0111

Product Name: Axol Human iPSC derived Neural Stem Cells – Alzheimer's Disease (APOE4 HOM)

Company/Undertaking Identification

Axol Bioscience Ltd. Roslin

Innovation Centre

Charnock Bradley Building

Easter Bush Campus

Easter Bush, EH25 9RG

United Kingdom

2. Composition/Information on ingredients Hazardous/Non-hazardous Components

Hazardous/Non-hazardous Components:

Dimethyl sulfoxide – 3-11%

CAS NO: 67-68-5 EC NO: 200-664-3

Sucrose – 1%

CAS-NO: 57-50-1 EC NO: 200-334-9

Y-27632 dihydrochloride (ROCKi) – 10mM

CAS NO: 129830-38-2 EC NO: 813-428-5

Contact Axol Bioscience Ltd. for further information.

All ingredients in the proportions used are considered non-hazardous by regulating bodies worldwide.

3. Hazards Identification

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

Classification / Indication of danger:

Harmful if swallowed, in contact with skin or if inhaled

May be corrosive to metals

4. Hazards Statements

Hazard statement(s)

Contact Axol Technical Support at operations@axolbio.com

H290 May be corrosive to metals.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled

Precautionary statement(s)

P234 Keep only in original packaging.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.

P390 Absorb spillage to prevent material damage.

5. First Aid Measures

Skin Contact: Wash off immediately with plenty of water

Eye Contact: Rinse thoroughly with plenty of water, also under eyelids

Ingestion: Never give anything by mouth to an unconscious person, rinse mouth with water

Inhalation: Move to fresh air

Notes to physician: Treat symptomatically

6. Fire-fighting Measures

Suitable extinguishing media: Dry chemical

Special protective equipment for fire fighters: Wear self-contained breathing apparatus and protective suit

7. Accidental Release Measures

Personal precautions: Use personal protective equipment

Methods for cleaning up: Soak up with inert absorbent material and keep in suitable sealed containers for disposal

8. Handling and Storage

Handling: Use good laboratory practices. Avoid inhaling vapors or mist. Avoid contact with eyes, skin, or clothing. Wash hands following handling of material

Storage: Keep in properly labelled containers. Store in Liquid Nitrogen at $\leq -130^{\circ}\text{C}$

Other Precautions: Explosion hazard; always follow biological safety procedures and liquid nitrogen safety rules

9. Exposure Controls / Personal Protection

Contact Axol Technical Support at operations@axolbio.com

Exposure Limits

Engineering measures: ensure adequate ventilation, such as a laboratory safety cabinet, especially in confined areas.

Personal Protective Equipment

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment

Hand protection: Impervious gloves

Eye protection: Safety glasses with side-shields

Skin and body protection: Lightweight protective clothing, nitrile rubber gloves

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls: Prevent product from entering drains

10. Physical and Chemical Properties

General Information:

- **Form:** Frozen Solid Solution
- **Appearance:** Off-White, frozen solid in cryovial
- **Odour:** Odourless

Important Health Safety and Environmental Information:

- **Boiling point/range:** No data available
- **Melting point/range:** No data available
- **Flash point:** No data available
- **Auto ignition temperature:** No data available
- **Oxidising properties:** No data available
- **Water solubility:** No data available

11. Stability and Reactivity

Stability: Stable

Materials to avoid: Strong acids, acid chlorides, phosphorous halides, strong oxidising agents, strong reducing agents

Hazardous decomposition products: Carbon monoxide, carbon dioxide, sulphur oxides

Polymerization: Hazardous polymerisation does not occur

12. Stability: Stable Toxicological Information

Acute toxicity

Principle Routes of Exposure/Potential Health effects:

Contact Axol Technical Support at operations@axolbio.com

Eyes: Moderate irritation Skin: No information available

Inhalation: No information available Ingestion: No information available

Specific effects

Carcinogenic effects: No information available Mutagenic effects: No information available Sensitisation: No information available

Target Organ Effects: No information available

13. Ecological Information

Eco toxicity effects: No information available

Mobility: No information available

Biodegradation / Bioaccumulation: Inherently biodegradable/does not bioaccumulate

14. Disposal Considerations

Dispose of in accordance with local regulations

15. Transport Information

IATA:

- **Proper shipping name:** Not classified as dangerous in the meaning of transport regulations
- **Hazard Class:** No information available
- **Subsidiary Class:** No information available
- **Packing Group:** No information available
- **UN-No:** No information available

16. Regulatory Information

- **Indication of danger:** Not Hazardous
- **R-phrase(s):** No information available
- **S-phrase(s):** No information available

17. Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information provided herein was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgement. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. All materials and mixtures may present unknown hazards and should be used with caution. Since Axol Bioscience Ltd. cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY,

Contact Axol Technical Support at operations@axolbio.com

MSDS Product Information Sheet

Ax0111 Axol Human iPSC derived Neural Stem Cells –
Alzheimer's Disease

EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

END OF SAFETY DATA SHEET

Contact Axol Technical Support at operations@axolbio.com

PHONE: +44 (0) 131 651 9710

US CALL TOLL FREE: 1-800-678-AXOL (2965)

 www.axolbio.com

Axol Bioscience Limited, Easter Bush Campus, Easter Bush, EH25 9RG