

SAFETY DATA SHEET

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

Product Name: CELLBANKER 2
Company: AMS Biotechnology (Europe) Limited
 184 Park Drive, Milton Park,
 Abingdon OX14 4SE, United Kingdom
Telephone: +44 (0) 1235 828 200
Fax: +44 (0) 1235 820 482
Product Code: 11914 (100 ml) / 11915 (20 ml) / 11893 (4 x 20ml)

SECTION 2: Hazards identification GHS classification and label elements, including precautionary statements:

GHS classification:

Health hazards Specific target organ toxicity (single exposure): Category 2

GHS label elements:

Pictograms



Signal word

Warning

Toxicological information

May cause damage to organs

Precautionary statements

Prevention:

Do not breathe dust/fume/mist.
 Wash contaminated area thoroughly after handling.
 Do not eat, drink or smoke when using this product.

Response:

IF exposed or concerned: Get medical advice or attention.

Disposal:

Dispose of contents/container in accordance with local and national regulations.

SECTION 3: Composition/information on ingredients

Uniform product or mixture: Mixture

Intended Use: Cell cryopreservation solution

Product composition:

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AMSBIO | www.amsbio.com | info@amsbio.com

AMSBIO LLC

USA & Canada



1035 Cambridge Street,
 Cambridge, MA 02141
 T: +1 (617) 945-5033 or
 T: +1 (800) 987-0985
 F: +1 (617) 945-8218

AMSBIO Europe BV

EU



Berenkoog 41,
 1822 BH Alkmaar,
 Netherlands
 T: +31 (0) 72 8080244
 F: +31 (0) 72 8080142

AMS Biotechnology (Europe) Ltd

UK & Rest of the World



184 Park Drive, Milton Park
 Abingdon OX14 4SE
 T: +44 (0) 1235 828 200
 F: +44 (0) 1235 820 482

AMS Biotechnology (Europe) Ltd

Switzerland



Via Lisano 3,
 (CP.683)
 CH-6900 Massagno
 T: +41 (0) 91 604 55 22
 F: +41 (0) 91 605 17 85

AMSBIO Europe BV

Deutschland



T: +49 (0) 69 779099
 F: +49 (0) 69 13376880

Ingredients	CAS №	EINECS №	RTECS #	Amount (%)
Dimethyl sulfoxide	67-68-5	200-664-3	PV6210000	10%
Medium component	-	-	-	≤ 10%

Hazardous ingredients: Applicable ingredient corresponding to the GHS classification and the health hazards symbol: Dimethyl sulfoxide

SECTION 4: First aid measures

- If inhaled:** If breathed in, move person into fresh air. Keep calm and warm. Consult a physician immediately.
- In case of skin contact:** Wash off with soap and plenty of water. Remove contaminated clothes. Consult a physician if area becomes inflamed.
- In case of eye contact:** Immediately flush eyes with running water for several minutes (remove contact lenses if easily possible). Consult a physician immediately.
- If swallowed:** Rinse mouth thoroughly with water and have person drink one to two glasses of water or milk. Consult a physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

SECTION 5: Firefighting measures

- Extinguishing media:** Fire-extinguishing powder, carbon dioxide, foam (alcohol foam), water
- Special hazards arising from the substance or mixture:** May give off irritating or toxic fumes (or gasses) in fires. During firefighting, wear proper protective equipment to avoid smoke inhalation.
- Advice for firefighters:** Extinguish with extinguishing media, cutting off the source of the fire. Promptly move all movable containers to a safe location. Cool non-movable containers by spraying mist around the area.
- Protection for firefighters:** Perform firefighting activities upwind, avoiding the inhalation of hazardous gasses.
Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

- Personal precautions:** If indoors, ventilate adequately until disposal is complete. Rope off location around area of release to prevent access by unauthorized personnel.
- Environmental precautions:** Do not let product enter drains. Ensure that contaminated waste water is not released into the environment before being properly treated.
- Methods for cleaning up:** Keep away from fire. Mop up spilled liquid with rags, towels, or earth, collect in an empty container, and wash away with plenty of water.

Be sure to wear protective equipment when working. Work upwind.

SECTION 7: Handling and storage

Precautions for safe handling: Wear proper protective equipment to avoid inhalation and prevent contact with eyes, skin, and clothing.

Conditions for safe storage: Store at 2 to 8 or below -20 °C.

Safety handling precautions: Obtain instruction before use.

SECTION 8: Exposure controls/personal protection

Control parameters

Control concentration: No data available

Permissible concentration

Japan Society for Occupational Health: Not established

ACGIH TLV(S): Not established

OSHA PEL: Not established

Exposure Prevention

Facility control: Install local ventilation.

Protective equipment

Respiratory protection: Respiratory protective mask

Hand protection: Protective gloves

Eye protection: Protective eyewear

Skin and Body protection: Protective clothing

SECTION 9: Physical and chemical properties

Form:	Liquid
Color:	Light pink color or red color liquid
Odor:	Slight characteristic odor
Odor Threshold:	No data available
Melting/Freezing point:	No data available
Boiling/Initial boiling point:	Not applicable
Boiling range:	No data available
Flammability:	No data available
Explosive limits (Lower/Upper):	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available

Self-accelerating decomposition temperature: No data available

pH: 7.0 to 8.5 (20°C)

Dynamic viscosity: No data available

Viscosity (coefficient of viscosity): No data available

Solubility:

[water] Dissolves in water

[other solvent] No data available

Octanol/water partition coefficient: No data available

Vapor pressure: No data available

Vapor density: No data available

Volatile organic compounds: No data available

Evaporation rate: No data available

Density/Relative density: No data available

Relative gas density (air=1): No data available

Relative density of the vapor/air-mixture at 20°C (air = 1): No data available

Critical temperature: No data available

Particle characteristics: No data available

Other data: No data available

SECTION 10: Stability and reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage and usage conditions.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity (Dimethyl sulfoxide):

Oral LD50: LD50 Oral-Rat-14,500 mg/kg

Dermal LD50: LD50 Dermal-Rat-40,000 mg/kg

Inhalation LD50: LD50 Inhalation-Rat->5,330 mg/m³ (5.33 mg/L)

(Risk Assessment vol. 13, Ministry of the Environment, Government of Japan, 2015)

Local effects:

Skin irritation/corrosion: No data available

Serious eye damage/irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Teratogenicity:	No data available
Teratogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity (single exposure):	Category 2, Respiratory (SIDS, 2008)
Specific target organ toxicity (repeat exposure):	No data available
Aspiration hazard:	No data available

SECTION 12: Ecological information

Ecotoxicity

Aquatic toxicity (Dimethyl sulfoxide):

Crustacean EC50: EC50=6830 mg/L/24hr

(Risk Assessment vol. 13, Ministry of the Environment, Government of Japan, 2015)

Solubility in water:

(Dimethyl sulfoxide)

Mixing (ICSC, 2000)

Persistence/Degradability: No data available

Bioaccumulation:

(Dimethyl sulfoxide)

log Pow=-1.35 (calculated) (ICSC, 2000)

Mobility in soil: No data available

Ozone depleting substances: No data available

SECTION 13: Disposal considerations

Waste treatment

Avoid release to the environment.

Dispose according to local public and other applicable regulations.

SECTION 14: Transport information

UN number: Not applicable

UN classification: Not applicable

SECTION 15: Regulatory information

Safety, health and environmental regulations or laws specific to the product

Poisonous and Deleterious Substances Control Law: Not applicable

Industrial Safety and Health Law: Products not applicable as organic solvents

Law for promotion of Chemical Management (Pollutant Release and Transfer Register Law):

Not applicable

Fire Service Law:

Not applicable

Ship Safety Law (Regulations for the Carriage and Storage of Dangerous Goods in Ship):

Not applicable

Civil Aeronautics Law:

Not applicable

SECTION 16: Other information**References**

Globally Harmonized System of classification and labeling of chemicals, (7th revised edition, 2017), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN

Classification, labeling and packaging of substances and mixtures (Table3 ECNO6182012)

2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2020 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

JIS Z 7252 (2019)

JIS Z 7253 (2019)

2019 Recommendation for allowable concentrations (Japan Society for Occupational Health)

Supplier's data/information

Responsibilities

This data sheet was prepared based on the present state of our knowledge, and the information may be supplemented or revised if newer information becomes available.

This data sheet was prepared for the purpose of providing information and does not guarantee with regarding to the descriptions.