

# Safety Data Sheet

## JC-10 in DMSO



### SECTION 1: Identification of the Substances and the Company/Undertaking

#### Identification of the Substance or Mixture

**Product Name:** JC-10 in DMSO

**Catalog Numbers:** 5110

#### Company/Undertaking Identification

Ion Biosciences

3055 Hunter Road, Box 3

San Marcos, TX 78666

+1 512.957.9123

#### 24 hour Emergency Response

866.536.0631

301.431.8585

+1 301.431.8585 (Outside the U.S.)

For Research Use Only. Not for use in diagnostic procedures.

### SECTION 2: Hazards Identification

#### GHS - Classification

**Signal word:** Warning

**Health Hazards:** None.

**Hazard statements:** H227 - Combustible liquid.

**Skin:** Slightly hazardous, irritant and permeator

**Inhalation:** Slightly hazardous, lung irritant

**Ingestion:** Slightly hazardous

#### Precautionary Statements

**Prevention:** P210 - Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P280 - Wear protective gloves/ eye protection/ face protection.

**Response:** P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:** P403+P235 - Store in a well-ventilated place. Keep cool.

**Disposal:** P501 - Dispose of contents/ container to an approved waste disposal plant.

#### Specific Effects

**Carcinogenic effects:** None.

**Mutagenic effects:** None.

**Reproductive toxicity:** None.

**Sensitization:** None.

**Target organ effects:** May cause damage through prolonged exposure.

#### Principle Routes of Exposure

#### HMIS

#### Potential Health Effects

**Eyes:** Slightly hazardous, irritant

Health	0
Flammability	4
Reactivity	0

### SECTION 3: Composition/Information on Ingredients

Handle all chemicals with caution.

Component	CAS-No	EINECS-No	Weight%
JC-10	5563-28-0	-	Withheld
DMSO	67-68-5	200-64-3	Withheld

### SECTION 4: First Aid Measures

**Skin contact:** Take off immediately all contaminated clothing. Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

**Ingestion:** After swallowing: make victim drink water (two glasses at most). If symptoms persist, call a physician. Do not induce vomiting without medical advice.

**Inhalation:** Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

**Most important symptoms and effects, both acute and delayed:**  
H302 - Harmful if swallowed, H316 - Causes mild skin irritation, H372 - Causes damage to organs through prolonged or repeated exposure, H412 - Harmful to aquatic life with long lasting effects.

**Notes to physician:** Treat symptomatically.

## SECTION 5: Firefighting Measures

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### Extinguishing Media

**Suitable extinguishing media:** Water spray. Dry chemical. Carbon Dioxide (CO<sub>2</sub>) Foam.

**Unsuitable extinguishing media:** Do not use water jet.

**Specific hazards arising from the chemical:** Carbon oxides, Sulfur oxides. Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapors possible in the event of fire.

**Advice for firefighters:** Wear self-contained breathing apparatus

## SECTION 6: Accidental Release Measures

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**Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. See Section 8 for more detail.

**Environmental precautions:** Do not let product enter drains.

**Methods and material for containment and cleaning up:** Soak up with inert absorbent material and dispose of as hazardous waste.

**Reference to other sections:** See section 8 and 12 for more information.

## SECTION 7: Handling and Storage

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**Handling:** Always wear recommended Personal Protective Equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

**Conditions for safe storage, including any incompatibilities:** Keep tightly closed in a dry, cool and well-ventilated place.

**Specific end use(s):** For research use only.

## SECTION 8: Exposure Controls/Personal Protection

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### Control Parameters

#### Exposure limits:

OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
None	None	250ppm	None

**Engineering measures:** Ensure adequate ventilation, especially in confined areas.

### Exposure Controls

**Personal Protective Equipment:** Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

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

**Hand protection:** Impervious gloves.

**Eye protection:** Wear safety glasses with side shields (or goggles).

**Skin and body protection:** Lightweight protective clothing.

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

**Environmental exposure controls:** Do not allow material to contaminate ground water system. Prevent product from entering drains or waterways whenever possible.

## SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties.

**Form:** Liquid.

**Appearance:** Orange solution.

**Odor:** No data available.

**Odor threshold:** No data available.

**Boiling point/boiling range:** °C No data available; °F No data available.

**Melting point/melting range:** °C No data available; °F No data available.

**Flash point:** °C No data available; °F No data available.

**Autoignition temperature:** °C No data available; °F No data available.

**Evaporation rate:** No data available.

**Flammability (solid, gas):** No data available.

**Oxidizing properties:** No data available.

**Partition coefficient (n-octanol/water):** No data available.

**Water solubility:** No data available.

**pH:** No data available.

## SECTION 10: Stability and Reactivity

**Reactivity:** Forms explosive mixtures with air on intense heating.

**Stability:** Stable under normal conditions.

**Materials to avoid:** Various plastics, metals

**Possibility of hazardous reactions:** None under normal use conditions.

**Hazardous decomposition products:** None under normal use conditions.

**Polymerization:** Hazardous polymerization does not occur.

**Conditions to avoid:** Strong heating.

**Hazardous decomposition products:** In the event of fire, see section 5.

## SECTION 11: Toxicological Information

### Acute Toxicity:

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
DMSO	28300mg/kg	40000mg/kg	4h—5.33mg/

**Skin:** (Rabbit) Slight irritation –4h

**Inhalation:** Harmful by inhalation.

**Ingestion:** Harmful if swallowed.

**Carcinogenic effects:** None.

**Mutagenic effects:** None.

**Reproductive toxicity:** None.

**Sensitization:** None.

### Principle Routes of Exposure

### Potential Health Effects

**Eyes:** (Rabbit) Slight irritation –24h

## SECTION 12: Ecological Information

**Ecotoxicity:** Zebra fish (25,000mg/L-96h), Water flea (24,600mg/L-48h), algae (17000mg/L-72h)

**Chronic aquatic toxicity:** No data available.

**Mobility:** No data available.

**Biodegradation:** Not readily biodegradable.

**Bioaccumulation:** No data available.

## SECTION 13: Disposal Considerations

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**Waste treatment methods:** The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique.

Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

## SECTION 14: Transport Information

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**IATA/ADR/DOT-US/IMDG:** Not Classified as dangerous in the meaning of transport regulations.

**Proper shipping name:** No dangerous good in sense of these transport regulations.

**Hazard class:** None.

**Subsidiary class:** None.

**Packing group:** None.

**UN-No:** None.

**Environmental hazards:** None.

## SECTION 15: Regulatory Information

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### US Federal Regulations

**SARA 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61):** This product does not contain HAPs.

### US State Regulations

**California Proposition 65:** This product does not contain any Proposition 65 chemicals.

**WHMIS Hazard Class:** D2B—Toxic materials

## SECTION 16: Other Information

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For Research Use Only. Not for use in diagnostic procedures.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company 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.

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