

## Section 1. Product and Manufacturer Identification

Product Name:	CD20 CHO Recombinant Cell Line (High Expression)
Catalog Number:	#79624-H
CAS number:	Contains: Dimethyl Sulfoxide (CAS# 67-68-5)
	See Section 3 for more details.
Recommended Usage:	This product is intended for use in a research setting for the growth of cell culture.
	This product is sold only for research use by qualified laboratory personnel, and is not to be used as a drug, medical device, food additive, cosmetic, nor household chemical. It is not to be used in diagnostic, therapeutic, consumer, and agricultural applications.
Manufacturer Information:	BPS Bioscience, Inc. 6405 Mira Mesa Blvd., Suite 100 San Diego, CA 92121 USA. Tel: 1-858-202-1401 www.bpsbioscience.com

For a complete list of components shipped with a product, please review the product datasheet, which is available on our website at www.bpsbioscience.com. A safety datasheet for each component is available upon request.

## Section 2. Hazard(s) Identification

### Hazard Classification

Not a hazardous substance or mixture according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

Hazard not otherwise<br/>classified (HNOC)Biosafety Level 1 - Agents not known to consistently cause<br/>disease in healthy adults and present minimal potential hazard to<br/>laboratory personnel and the environment.

Signal Word

n/a



Hazard Pictograms:	n/a	
Health Hazards:		
	Respiratory sensitization	0
		0
	Reproductive Toxicity	0
Physical Hazards:	Not hazardous	
Environmental Hazards:	Not hazardous	
Hazard Statement(s):	Not hazardous	
Precautionary statements	<u>8</u>	
Prevention:	Not Applicable	
Response:	Not Applicable	
Storage:	Not Applicable	
Disposal:	Not Applicable	
Other Hazards:	Not Applicable	
HMIS	Health	0
	Flammability	0
	Reactivity	0

# Section 3. Composition and Information on Ingredients

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Component	CAS No.	Common Name	EINECS-No	Classification	Weight-%
Dimethyl sulfoxide	67-68-5	DMSO	200-664-3	Flam. Liq. 4; H227	>= 5, <15%

Contains fetal bovine serum or calf serum. The physical properties of this product have not been investigated thoroughly. We recommend handling all chemicals according to good lab practices, with proper personal protective equipment, proper engineering controls, and within the parameters of the purchaser's chemical hygiene plan.

Fetal bovine serum (FBS) is FBS is ISIA-certified and sourced from the United States of America. No viruses or bacteria are known to be present; however, appropriate precautions for biological materials should be used.

## Section 4. First Aid Measures

### **Description of First Aid measures**

Skin contact:	Remove and wash affected articles of clothing immediately and rinse skin with soap and water for 15 minutes. Immediate medical attention is not required.
Eye contact:	Rinse immediately with water for several minutes, including under the eyelids. Remove contact lenses, if present and easy to do. Rinse for at least 15 minutes.
Ingestion:	Rinse mouth with water. Do not give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
Inhalation:	Remove source of exposure or move person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell or are concerned.
Notes to Physician:	Treat symptomatically.

**Most important symptoms and effects, both acute and delayed:** No known significant effects or critical hazards.

### Indication of any immediate medical attention and special treatment needed:



No data available.

## Section 5. Fire Fighting Measures

Suitable extinguishing media	Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Use caution when applying carbon dioxide in confined spaces.
Unsuitable extinguishing media	No data available.
Special hazards arising from the substance or mixture	None known.
Special protective equipment for firefighters	Standard procedure for chemical fires.

## Section 6. Accidental Release Measures

Personal precautions and protective equipment	Ensure adequate ventilation, and avoid breathing vapors, mist or gas. Avoid dust/aerosol formation. Isolate hazard area and keep unauthorized personnel away. Remove all sources of ignition. Always wear recommended Personal Protective Equipment. See section 8 for more information.
Emergency procedures	Evacuate personnel to safe areas. Wear Personal Protective Equipment and keep unprotected individuals away.
Environmental precautions	Stop spill/release if it can be done safely. Do not allow product to reach ground water, water course or sewage system.
Methods and material for containment and cleaning up	BSL-1 labs require immediate decontamination after spills. Allow aerosols to settle; wearing protective clothing, gently cover spill with paper towel and apply 10% sodium hypochlorite, starting at perimeter and working towards the center; allow sufficient contact time before cleanup (30 min). Clean up spills immediately. The use of additional PPE may be necessary for cleaning solutions.

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Reference to other sections	See section 8 for more information.

## Section 7. Handling and Storage

Precautions for Safe Handling	Avoid contact with skin and eyes. Use aseptic procedures. Use personal protective equipment as required by BSL-1 regulations. Use personal protective equipment as required. Do not eat, drink, or smoke in working areas. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Wash hands thoroughly after leaving the laboratory. Standard microbiological practices should be followed.
Precautions for protection against explosions and fires	Keep ignition sources away - Do not smoke. The product is not flammable.
Precautions for minimizing the release of the chemical into the environment	No special environmental precautions are needed. Avoid discharge into drains and waterways whenever possible.
Conditions for safe storage, including any incompatibilities	Keep container tightly sealed in a dry, cool and well- ventilated place. Recommended storage temperature: As described in technical data sheet Storage class (TRGS 510): 12: Non-Combustible Liquids

## Section 8. Exposure Controls, Personal Protection

### **Control Parameters**

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (8-hour TWA)	ACGIH OEL (STEL)
Dimethyl	-	-	250 ppm [USA	-
sulfoxide			WEELs, AIHA 2003]	

The lists that were valid during the creation of this document were used as basis.

### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and

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safety practice. Wash hands before breaks and at the end of workday.

# Exposure Controls

### Personal Protective Equipment (PPE)

**Respiratory protection** In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standard, such as NIOSH (US) or CEN (EU).

Hand protectionHandle with suitable impervious gloves. Gloves must be<br/>inspected prior to use. Use proper glove removal<br/>technique (without touching glove's outer surface) to<br/>avoid skin contact with this product. Dispose of<br/>contaminated gloves after use in accordance with<br/>applicable laws and good laboratory practices. Wash and<br/>dry hands.

### **Recommended Gloves**

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: >10 min Material tested: uvex u-fit strong N2000 chemical protection glove (UVEX Article number: 60962)

test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Remarks:

Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions (e.g., temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

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	Since actual conditions of practical use often deviate from standardized conditions according EN 374, we recommend using the chemical protective glove in practice not longer than 50% of the recommended permeation time. Wash hands with soap and water after removal of contaminated gloves.
	Manufacturer's directions for use should be observed because of manufacturer-specific differences in products.
Eye protection	Tight sealing safety goggles with side-shields conforming to NIOSH (US) or EN 166(EU).
Body protection	Wear suitable impervious protective clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	Do not allow product to reach ground water, water course, or sewage system.

## Section 9. Physical and Chemical Properties

### Physical and chemical properties

Physical state	Frozen liquid
Odor	No data available
Odor threshold	No data available
рН	6-8
Molecular weight	No data available
Melting Point / melting range	-10°C to 2°C
Boiling point / boiling range	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available

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Upper explosion limit	No data available
Lower explosion limit	No data available
Vapor Pressure	No data available
Vapor density	No data available
Relative density	No data available
Specific gravity	No data available
Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Other information	No data available

# Section 10. Stability and Reactivity

Chemical Stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	No data available
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions Carbon oxides, Sulphur Oxides, formaldehyde Other decomposition products - No data available
Polymerization	Hazardous polymerization does not occur under conditions of normal use.

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# Section 11. Toxicological Information

Acute toxicity								
Chemical Name	Oral LD50	Derma		Inhalation LD50	Concentration / %			
Dimethyl	Acute oral	LD		Acute inhalation	>= 5%, < 15%			
Sulfoxide	toxicity	Species: Rat		toxicity:				
(DMSO)	Species: Rat	Value: 40,000		LCO				
	Value: 28,500	mg/kg Method: No		Species: Rat				
	mg/kg Method:	inform		Value: > 5.33 mg/l				
	OECD Test	availa		Exposure time: 4 h Method: OECD Test				
	Guideline 401	avalle	abie.	Guideline 403				
Skin corrosion / irritation				<b>Chemical Name: DMSO</b> Species: Rabbit Result: Mild skin irritation Method: OECD Test Guideline 404				
Serious eye damage / irritation			<b>Chemical Name: DMSO</b> Species: Rabbit Result: Mild eye irritation Method: OECD Test Guideline 405					
Respiratory or skin sensitization			<b>Chemical Name: DMSO</b> Species: Guinea pig Result: Does not cause skin sensitization. Method: OECD Test Guideline 406					
Specific target organ toxicity (STOT) – single exposure			No data available					
Specific target organ toxicity (STOT) – repeated exposure			No data available					
Carcinogenicity			No data available					
Germ cell mutagenicity			No data available					
Reproductive tox	•		No data available					
Aspiration hazard			No data available					
Principle Routes	of Exposure		Respiratory organs, mouth, skin, and eyes.					
Symptoms of exp	posure		No data available					
Additional information			https://pubchem.ncbi.nlm.nih.gov/					

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# Section 12. Ecological Information

Ecotoxicity	Substance: DMSO Toxicity to fish: LC50 Species: Danio rerio (zebra fish) Value: > 25,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
	Substance: DMSO Toxicity to aquatic plants: EC50 Species: Pseudokirchneriella subcapitata (green algae) Value: 17,000 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	Substance: DMSO Toxicity to Microorganisms: EC50 Species: activated sludge Value: 10 - 100 mg/l Exposure time: 30 min Method: ISO 8192
	Substance: DMSO Toxicity to aquatic invertebrates: EC50 Species: Daphnia magna (Water flea) Value: 7,000 mg/l Exposure time: 24 h Method: OECD Test Guideline 202
Persistence and degradability	Substance: DMSO Biodegradation: 31 % Exposure time: 28 d Result: Not readily biodegradable. Method: OECD 301 D
Bioaccumulative potential	No information available
Mobility in soil	No information available

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**Results of PBT and vPvB** No information available assessment

Other adverse effects Do not dispose into surface water or sanitary sewer system.

## Section 13. Disposal Considerations

### **Disposal of Product**

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

## Section 14. Transport Information

### IATA / ADR / DOT-US / IMDG

Classified as dangerous in the meaning of transport regulation

UN Number	Not Regulated
UN proper shipping name	Not Applicable
Transport hazard class(es)	Not Applicable
Packing group	Not Applicable
Special Precautions for user	Not Applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not Applicable

## Section 15. Regulatory Information

Chemical Name	US TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags		
Dimethyl Sulfoxide	Listed	Active	None		

**TSCA 12(b) - Notices of Export** Not applicable



### **U.S. Federal Regulations**

SARA 302 Components Not applicable

SARA 313 Components Not applicable

### SARA 311/312 Hazards

Chronic Health Hazard. See section 2 for more information.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs)** Product does not contain HAPs.

CWA (Clean Water Act) Not applicable

**OSHA - Occupational Safety and Health Administration (Hazardous Materials)** Not applicable

### CERCLA

Not Applicable

### **U.S. Department of Transportation**

Reportable Quantity (RQ):Not applicableDOT Marine Pollutant:Not applicableDOT Severe Marine Pollutant:Not applicable

#### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

#### **U.S. State Regulations**

#### **California Prop 65**

Product does not contain chemicals listed under Proposition 65.

#### **US State Right To Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island	
Dimethyl	Not Listed	Listed	Not Listed	Not	Not Listed	
Sulfoxide				Listed		

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### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Chemical Name	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Dimethyl Sulfoxide	67- 68-5	Listed	Not Listed	200- 664-3	Listed	Listed	Listed	Listed	Listed	KE- 32367

### Mexico - Grade

Slight risk, Grade 1

### **WHMIS Hazard Class**

Not Applicable.

## Section 16. Other Information

Revision date: December 21, 2021

### **Contact information:**

Phone: 1-858-202-1401

Email: support@bpsbioscience.com

This product is for research use only and is not intended for human or animal diagnostic or therapeutic uses. The recipient is responsible for ensuring that, where applicable, existing laws and guidelines are observed. All materials and mixtures may present unknown hazards and should be used with caution.

BPS Bioscience provides this information in good faith and is based on our present knowledge. This information shall not be taken as being all inclusive and is to be used only as a guide. This SDS does not constitute a warranty of any kind.

End of Safety Data Sheet

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