

Section 1. Product and Manufacturer Identification

Product Name: ROR1 CHO Recombinant Cell Line (Medium expression)

Catalog Number: # 79609-M

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 classified (HNOC)

Biosafety Level 1 - Agents not known to consistently cause disease in healthy adults and present minimal potential hazard to laboratory personnel and the environment.

This cell line was transfected via electroporation or lipophilic reagents during development. No viral methods were used.





Signal Word n/a

Hazard Pictograms: n/a

Health Hazards: None known

Physical Hazards: None known

Environmental Hazards: None known

Hazard Statement(s): None known

Precautionary statements

Prevention: Not Applicable

Response: Not Applicable

Storage: Not Applicable

Disposal: Not Applicable

Other Hazards: Not Applicable



Section 3. Composition and Information on Ingredients

Component	CAS No.	Common Name	EINECS-No	Classification	Weight-%
Dimethyl sulfoxide	67-68-5	DMSO	200-664-3	Flam. Liq. 4; H227	5-10%

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.

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





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 protection

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





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.

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 measuresHandle 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

pH 6-8

Molecular weight No data available

Melting Point / melting range -10°C to 2°C

Boiling point / boiling range

Flash point

No data available

Flammability (solid, gas)

No data available





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.





Section 11. Toxicological Information

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LD50	Concentration / %
Dimethyl	Acute oral	LD50	Acute inhalation	5-10%
Sulfoxide	toxicity	Species: Rat	toxicity:	
(DMSO)	Species: Rat	Value: 40,000	LC0	
	Value: 28,500	mg/kg	Species: Rat	
	mg/kg	Method: No	Value: > 5.33 mg/l	
	Method:	information	Exposure time: 4 h	
	OECD Test	available.	Method: OECD Test	
	Guideline 401		Guideline 403	

Skin corrosion / irritation Chemical Name: DMSO

Species: Rabbit

Result: Mild skin irritation

Method: OECD Test Guideline 404

Serious eye damage / irritation Chemical Name: DMSO

Species: Rabbit

Result: Mild eye irritation

Method: OECD Test Guideline 405

Respiratory or skin sensitization Chemical Name: DMSO

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

CarcinogenicityNo data availableGerm cell mutagenicityNo data availableReproductive toxicityNo data availableAspiration hazardNo data available

Principle Routes of ExposureRespiratory organs, mouth, skin, and eyes.

Symptoms of exposure No data available

Additional information https://pubchem.ncbi.nlm.nih.gov/





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





Results of PBT and vPvB No information available

assessment

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

UN proper shipping name

Transport hazard class(es)

Packing group

Not Applicable

Not Applicable

Not Applicable

Not Applicable

Not Applicable

Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC code

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

Not applicable

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):

DOT Marine Pollutant:

DOT Severe Marine Pollutant:

Not applicable

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 Sulfoxide	Not Listed	Listed	Not Listed	Not Listed	Not Listed

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	67-	Listed	Not	200-	Listed	Listed	Listed	Listed	Listed	KE-
Sulfoxide	68-5		Listed	664-3						32367

Mexico - Grade Slight risk, Grade 1

WHMIS Hazard Class Not Applicable.

Section 16. Other Information

Revision date: August 23, 2022

Contact information:

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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