

Material Safety Datasheet (MSDS)



Revision Date: 04/16/2026

Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2020/2008

www.abmgood.com

Applied Biological Materials Inc.

1-3671 Viking Way,
Richmond, BC, CANADA
V6V 2J5

Section 1 – Identification of Substances/Mixture and of the Company/Undertaking

1.1 Product identifier.

Product Name	NeuroRat™ Medium Kit
Product Code(s)	TM208
Chemical Name	Data not relevant for safe use
Reach Number	A registration number is not required for this substance

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Recommended Use	For research use only. Not for human or diagnostic use.
Uses advised against	No information available

1.3 Details of the supplier of the safety data sheet:

Supplier Name	Applied Biological Materials Inc.
Supplier Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Supplier Phone Number	Tel: 604-247-2416 Fax: 604-247-2414
Supplier Email	technical@abmgood.com

1.4 Emergency telephone number:

Emergency Phone	Use your national or local emergency number. Canada or USA: Emergency Services (dial 911, 24h service)
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Section 2 – Hazards Identification

2.1 Classification of the substance or mixture.

Classification of substance according to Regulation (EC) No 1272/2008 (CLP)

Not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP).

2.2 Label elements.

Label elements according to Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture.

2.3 Other hazards.

This product contains trace amounts of retinoic acid, a substance classified as a reproductive toxin in concentrated form. At the concentration present, the mixture is not classified as hazardous. Handle in accordance with good laboratory practice.

Section 3 – Composition/Information on Ingredients

3.1 Substances.

This product is a cell culture medium consisting of a mixture of inorganic salts, amino acids, vitamins, and other nutrients dissolved in water.

The following components are present at low concentrations:

<u>Component</u>	<u>CAS No.</u>	<u>Concentration</u>
Retinoic acid (all-trans)	302-79-4	~0.0006%
Dimethyl sulfoxide (DMSO)	67-68-5	<10%

All other components are non-hazardous or present below reportable thresholds.

Section 4 – First Aid Measures

Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes, remove contact lens if applicable; consult a physician.

Skin Contact

Wash off with soap and plenty of water. Consult a physician.

Inhalation

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Do not induce vomiting unless directed to do so by physician.

Most Important Symptoms and Effects, both Acute and Delayed

No information available.

Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically and supportively.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, carbon dioxide, dry chemical powder, Halon (where regulations permit), or appropriate foam.
Specific Hazards	Thermal decomposition can lead to release of irritating and toxic gases and vapors.
Advice for Firefighters	Wear self contained breathing apparatus for firefighting if necessary. Use personal protection equipment.
Further Information	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 – Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area; observe emergency procedures; consult an expert. For personal protection see section 8.
Methods and Materials for Containment and for Cleaning Up	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly in marked biohazard container. Clean up affected area.
Environmental Precautions	See Section 12.
Reference to Other Sections	For disposal see Section 13.

Section 7 – Handling and Storage

7.1 Precautions for Safe Handling

Advice on Safe Handling Ensure adequate ventilation.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for Safe Storage, including any Incompatibilities

Storage Conditions Keep container tightly closed. Keep at 2-8°C or -20 to -80°C; as indicated by product label.

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8 – Exposure Controls/Personal Protection

8.1. Control Parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available

8.2. Exposure Controls

Personal Protective Equipment

Eye/face Protection: Use equipment for eye protection tested and approved under appropriate government standard safety glasses/goggles.
Skin and Body Protection: Wear appropriate chemical-resistant gloves. Dimethyl sulfoxide may enhance dermal absorption of dissolved substances.
Respiratory Protection: Not required under normal conditions of use. Avoid aerosol generation.

Environmental Exposure Controls

No information available

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State

Frozen solid, or in liquid

Colour

Data not relevant for safe use

Odour

Data not relevant for safe use

Property

Values

Remarks/Method

Melting Point/Freezing Point (°C)

Data not relevant for safe use

None known

Boiling Point/Boiling Range (°C)

Data not relevant for safe use

None known

Flammability

Data not relevant for safe use

None known

Lower and Upper Exposure Limit

Data not relevant for safe use

None known

Flash Point	Data not relevant for safe use	None known
Auto-ignition Temperature	Data not relevant for safe use	None known
Flammability Limit in Air	Data not relevant for safe use	None known
Decomposition Temperature	Data not relevant for safe use	None known
pH	Data not relevant for safe use	None known
Kinematic Viscosity	Data not relevant for safe use	None known
Solubility	Data not relevant for safe use	None known
Partition coefficient: n-octanol/water	Data not relevant for safe use	None known
Vapour pressure	Data not relevant for safe use	None known
Density / Relative Density	Data not relevant for safe use	None known
Relative Vapour Density	Data not relevant for safe use	None known
Particle Characteristics	Data not relevant for safe use	None known

9.2. Other Information

Physical State Softening Point	Data not relevant for safe use
Colour Molecular Weight	Data not relevant for safe use
Odour VOC Content (%)	Data not relevant for safe use
Liquid Density	Data not relevant for safe use
Bulk Density	Data not relevant for safe use
Particle Size	Data not relevant for safe use
Particle Size Distribution	Data not relevant for safe use

Section 10 – Stability and Reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

Serious Eye Damage/Eye Irritation No information available

Respiratory or Skin Sensitization No information available

Germ Cell Mutagenicity No information available

Carcinogenicity No information available

Reproductive Toxicity This product contains trace amounts of retinoic acid, which is classified as a reproductive toxicant (Category 1B). Based on the concentration present, the mixture is not expected to present reproductive toxicity hazards under normal conditions of use.

STOT - Single Exposure No information available

STOT - Repeated Exposure No information available

Aspiration Hazard No information available

Section 12 – Ecological Information

12.1. Toxicity

Ecotoxicity No ecological information available

12.2 Persistence and Degradability

Persistence and Degradability No information available

12.3 Bioaccumulative Potential

Bioaccumulation No information available

12.4 Mobility in Soil

Mobility in Soil No information available

12.5 Results of PBT and vPvB Assessment

PBT and vPvB Assessment No information available

12.6 Other Adverse Effects

Other Adverse Effects No information available

Section 13 – Disposal Considerations

13.1 Waste Treatment Methods

Waste from Residues/Unused Products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated Packaging	No information available

Section 14 – Transportation Information

IMDG

14.1 UN Number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Marine Pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable

RID

14.1 UN-No.	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

ADR

14.1 UN-No.	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated

14.5 Environmental Hazard Not applicable

14.6 Special Provisions None

IATA

14.1 UN Number Not regulated

14.2 Proper Shipping Name Not regulated

**14.3 Hazard Class
Subsidiary Class** Not regulated

14.4 Packing group Not regulated

14.5 Environmental Hazard Not applicable

14.6 Special Provisions None

Section 15 – Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Persistent Organic Pollutants

Not applicable.

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

International Inventories

TSCA Contact supplier for inventory compliance status

DSL/NDSL Contact supplier for inventory compliance status

EINECS/ELINCS Contact supplier for inventory compliance status

ENCS Contact supplier for inventory compliance status

IECSC Contact supplier for inventory compliance status

KECL Contact supplier for inventory compliance status

PICCS Contact supplier for inventory compliance status

AICS Contact supplier for inventory compliance status

Legend

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	Japan Existing and New Chemical Substances
IECSC	China Inventory of Existing Chemical Substances
KECL	Korean Existing and Evaluated Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances
AICS	Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

No information available.

Section 16 – Other Information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization:

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	-	Skin designation

Key literature references and sources for data

www.ChemADVISOR.com/

This safety data sheet complies with the requirements of: Regulation (EC) No.1907/2006.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet