



# Safety and Data Sheet

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## 1. Product and Company Identification

**Product Identifier:** IRB  
**Product Name:** Iron Reducing Bacteria Growth Media  
**Relevant identified uses of the substance or mixture and uses advised against:**  
Detection of Iron Reducing Bacteria (IRB)  
**Manufactured by:** Biotechnology Solutions USA, LLC.  
10516 Kipp Way, Suite B  
Houston, TX 77099  
**Telephone Number:** 1 (281) 531-5319

## 2. Hazards Identification

### Product Overview:

*Caution! May cause eye, skin, and respiratory tract irritation. This is expected to be a low hazard for usual industrial handling. No target organ information has been found.*

<b>Appearance</b> Clear, Yellow Tint	<b>Physical State</b> Liquid	<b>Odor</b> Slightly Ammonical
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### GHS Classification:

#### Other Safety Precautions:

Not a dangerous substance according to GHS classification criteria.  
No known OSHA hazards.  
May cause eye irritation.  
Preexisting eye disorders  
May cause irritation to skin.  
Skin Disorders.  
May cause gastrointestinal discomfort.  
May cause irritation to respiratory tract.

**Environmental Hazard:** See section 12 for additional Ecological Information

## 3. Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>% (w/v)</u>
Sodium Bicarbonate	144-55-8	< 1.0
Calcium Chloride	10043-52-4	< 1.0
Potassium Chloride	7447-40-7	< 1.0
Ammonium Chloride	12125-02-9	< 1.0
Sodium Phosphate	7558-80-7	< 1.0
Magnesium Chloride	7791-18-6	< 1.0
Magnesium Sulfate	10034-99-8	< 1.0
Manganese Chloride	7739-18-6	< 1.0
Sodium Molybdate	10102-40-6	< 1.0
Ferric Citrate	2338-05-8	< 1.0
Sodium Acetate	127-09-3	< 1.0

Yeast Extract	8013-01-2	< 1.0
Sodium Chloride	7647-14-5	< 1.0

**Formula** Mixture - This product does not contain any harmful or hazardous substances

#### 4. First Aid Measures

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.

**Skin Contact:** Wash off immediately with soap and plenty of water for at least 15 minutes while removing all clothing and shoes. Get medical attention if irritation develops and persists.

**Inhalation:** Not a common route of exposure.

**Ingestion:** Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Rinse mouth. Give plenty of water if conscious.

#### 5. Fire Fighting Measures

**Flammable Properties:** Not Flammable

**Flash Point:** >200° F/ >93.3°C

**Auto-ignition Temperature:** Not available

**Explosion Limits:** Lower: Not available Upper: Not available

**Extinguishing Methods:** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry powder.

**Hazardous Combustion Products:** Carbon Oxides

**NFPA Rating:** Health: 0; Flammability: 0; Instability: 0; Physical Hazard 0



**HMIS Rating:**

Health	0
Fire	0
Reactivity	0
Physical Hazard	0

#### 6. Accidental Release Measures

**Personal Precautions** Use personal protective equipment. Avoid contact with the skin and the eyes. Ensure adequate ventilation.

**Environmental precautions:** Wipe up with damp sponge or mop.

**Methods for Containment:** Dike far ahead of liquid spill for later disposal.

**Methods for Cleaning Up:** Soak up with inert absorbent material. Transfer to properly labeled containers.

**Reference to other sections:** See **Section 7** for information on safe handling.  
See **Section 8** for information on personal protection equipment.  
See **Section 13** for disposal information.

#### 7. Handling and Storage

**Handling:** Wear personal protective equipment.

**Precautions for safe handling:** No special measures required.

**Storage:** Keep in a cool, well-ventilated place.

**Explosion and fire information:** No special measures required.

**Additional storage information:** None.

#### 8. Exposure Controls/ Personal Protection

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product.

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Personal Protective Equipment**

**Eye/Face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin and Body Protection** Wear appropriate protective gloves and clothing to prevent skin exposure.

**9. Physical and Chemical Properties**

<b>Appearance</b>	Clear, Yellow Tint	<b>Odor</b>	Slightly Ammonical
<b>Physical State</b>	Liquid	<b>pH</b>	7.1
<b>Flash point</b>	>200° F/ >93.3°C	<b>Solubility</b>	Soluble in Water
<b>Specific Gravity</b>	No Data Available	<b>Density</b>	No Data Available

**10. Stability and Reactivity**

**Stability** Stable under recommended storage conditions.

**Incompatible Products** Oxidizing agents, acids, bases.

**Conditions to Avoid** Extreme temperatures and humidity.

**Hazardous Decomposition Products** Carbon oxides

**Hazardous Polymerization** None under normal processing.

**11. Toxicological Information**

**Acute Toxicity**

**Product Information** The product itself has not been tested.

**Irritation** May cause irritation to eyes

**Chronic Toxicity**

**Chronic Toxicity** Prolonged exposure may cause chronic effects.

**Target Organ Effects** Eyes, Skin

**12. Ecological Information**

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

**13. Disposal Considerations**

**Waste Disposal Method** Dispose of in accordance with local regulations.

**Contaminated Packaging** Dispose of in accordance with local regulations.

**14. Transport Information**

**DOT** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

**15. Regulatory Information U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

**Acute Health Hazard** No

**Chronic Health Hazard** No

**Fire Hazard** No

**Sudden Release of Pressure Hazard** No  
**Reactive Hazard** No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

**U.S. State Regulations**

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

**International Regulations**

**Mexico - Grade** No information available.  
**Canada** No information available.

**WHMIS Hazard Class** Not determined

**16. Other Information**

**Issuing Date** 1-Mar-2010

**Printing Date** 10-Nov-16

**Disclaimer**

**The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.**

**End of Safety Data Sheet**