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MATERIAL SAFETY DATA SHEET

CHEMTREC # 1-800-424-9300

NATIONAL RESPONSE CENTER # 1-800-424-8802

Date: 05-26-2011
Revision: D

1. PRODUCT IDENTIFICATION

PRODUCT NAME: QBSF[®]-58 (Serum-Free Medium)
CATALOG NUMBER: 160-109-061, 160-109-101
CHEMICAL NAME: Aqueous solution of Iscove's Modification of Dulbecco's Medium, Sodium bicarbonate, HEPES [4-(2-hydroxyethyl)-1 piperazineethanesulfonic acid], Bovine serum albumin, Recombinant human insulin, Human transferrin, Cholesterol and L-glutamine.

2. HAZARD IDENTIFICATION RATING SYSTEM

The hazards identified with this product are based on the hazards of the individual component(s) and not on the solution as a whole. This is based on the *SAF-T-DATA™ ratings.

HEALTH: 2 Moderate
FLAMMABILITY: 1 Slight
REACTIVITY: 1 Slight
CONTACT: 2 Moderate

*SAF-T-DATA is a trademark of Mallinckrodt Baker, Inc.

3. PRECAUTIONS FOR SAFE HANDLING AND USE

Handle as if capable of transmitting infectious agents. Use Universal Precautions. Human source material from which this product was derived was found negative for Hepatitis B surface antigen and antibody to HIV-1, HIV-2, Hepatitis C virus, and Syphilis by approved test methods. Since no test method can offer complete assurance that the Hepatitis B and C viruses, HIV, or other infectious agents are absent, this product should be handled observing the same safety precautions employed when handling any potentially infectious material.

Wear safety glasses, lab coat and suitable gloves. Use with mechanical exhaust. Wash thoroughly after handling. When not in use, keep in tightly closed container.

May cause eye and skin irritation. During use, avoid contact with eyes, skin and clothing.

4. INGREDIENTS

This product contains hazardous ingredients: Yes
This product contains carcinogens: No
This product is proprietary: Yes

NOTE: The chemical amounts which are considered a trade secret and proprietary are listed with a "P".

Chemical Name	CAS #	w/v	%
Iscove's Modification of Dulbecco's Medium (IMDM)	none	N/A	99.0
Sodium bicarbonate	144-55-8	3.02 g/L	0.3
HEPES	7365-45-9	5.95 g/L	0.6
L-glutamine	56-85-9	0.60 g/L	0.1
Bovine serum albumin	9048-46-8	P	N/A
Recombiant human insulin	11070-73-8	P	N/A
Human transferrin	9007-73-2	P	N/A
Cholesterol	57-88-5	P	N/A

5. PHYSICAL DATA

Physical State: Liquid
pH: 7.0 ± 0.2
Appearance/Odor: Clear, red-orange/odorless
Flash Point: N/A

6. FIRE AND EXPLOSION

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Use extinguishing media appropriate to surrounding fire conditions.

UNUSUAL FIRE AND EXPLOSION HAZARDS

May emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides and hydrogen chloride under fire conditions.

7. HEALTH HAZARD INFORMATION

This product contains human source material. It is a biohazard. Handle as if capable of transmitting infectious agents. Use Universal Precautions. Refer to Section 3, "Precautions for Safe Handling and Use" for further information. The toxicological properties of this product have not been determined. The solution may cause acute or chronic irritation of skin, eyes and mucous membranes.

IN THE EVENT OF ANY CHEMICAL EXPOSURE, PLEASE SEEK MEDICAL ATTENTION.

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: Repeatedly rinse mouth with water. Drink large quantities of water. Get medical attention.

SKIN CONTACT: Immediately wash skin with soap and flush with large amounts of water for at least 15 minutes. Get medical attention if irritation persists. If suspected that a small amount has come in contact with a cut, sore, or open wound, flush thoroughly with water and get medical attention.

EYE CONTACT: Immediately flush eyes with large amounts of water for at least 15 minutes. Get medical attention.

FOR EMERGENCY EXPOSURE INFORMATION: 1-800-424-8802 (National Response Center)

8. REACTIVITY DATA

Stable

9. SPILL OR LEAK PROCEDURES

Handle as if capable of transmitting infectious agents. Clean up spill and sanitize in accordance with your policy for bloodborne pathogens and/or human proteins. One option is to wear a respirator, protective clothing and safety glasses or goggles while cleaning up the spill. Minimize spread of liquid using appropriate absorbent material. Place in closed containers for disposal. Sanitize area with bleach.

10. DISPOSAL PROCEDURES

Dispose of in accordance with all applicable Federal, State and Local environmental regulations regarding infectious waste.

11. SPECIAL PROTECTION INFORMATION

Handle as if capable of transmitting infectious agents. Use Universal Precautions. This product is for research use only. This product has not been approved for diagnostic or therapeutic use. Wear safety glasses, lab coat and proper gloves. Refer to Section 3, "Precautions for Safe Handling and Use" for further information.

12. SPECIAL PRECAUTIONS

Handle as if capable of transmitting infectious agents. Use Universal Precautions. Refer to Section 3, "Precautions for Safe Handling and Use" for further information.

STORAGE INFORMATION: Store in tightly closed container at 4°C.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT; HOWEVER, IT MAY NOT BE ALL-INCLUSIVE. THIS INFORMATION SHOULD BE USED ONLY AS A GUIDE. QUALITY BIOLOGICAL, INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM THE HANDLING OR CONTACT WITH THE ABOVE PRODUCT.