

1. IDENTIFICATION

Product Name: Primary Cells

CAS No.: None

2. RELEVANT COMPOSITION AND INFORMATION ON INGREDIENTS

Component: Dimethyl sulfoxide (DMSO)

CAS No.: 67-68-5

Concentration: 10%

GHS Classification: Not a hazardous substance or mixture.

3. HAZARDS IDENTIFICATION

Potential Acute Health Effects: Very few toxic symptoms in humans. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, or of inhalation (lung irritant).

Potential Chronic Health Effects: Slightly hazardous in case of skin contact (irritant), of ingestion. Carcinogenic Effect: Not available. Teratogenic Effects: Not available. Developmental Toxicity: Not available. The substances or mixture may be toxic to blood, kidneys, liver, mucous membranes, skin, eyes.

4. FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid if irritation occurs.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Serious Skin Contact: Not available.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting unless directed by medical personnel. Get medical aid if symptoms appear. Serious Ingestion: Not available.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation. Serious Inhalation: Not available. Notes to Physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool.

Extinguishing Media: Cool containers with flooding quantities of water until well after fire is out. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

6. ACCIDENTAL RELEASE MEASURES

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Do not flush into a sewer. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.

Storage: Keep away from heat, sparks, and flame. Store in a tightly closed container. Recommended storage temperature: As per technical data sheet.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: General industrial hygiene practice.

Exposure Controls:

Personal Protective Equipment

Eyes: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Respiratory protection is not required. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU) whenever workplace conditions warrant a respirator's use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Colorless

Odor: No data available

pH: No data available

Vapor Pressure: No data available

Boiling Point: No data available

Decomposition Temperature: No data available

Solubility: No data available

Specific Gravity/Density: No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: No data available

Incompatibilities with Other Materials: No data available

Hazardous Reactions: No data available

Hazardous Decomposition Products: No data available

11. TOXICOLOGICAL INFORMATION

Oral LD50/LC50: No data available

Dermal LD50/LC50: No data available

Inhalation LD50/LC50: No data available

Carcinogenicity: No data available

Epidemiology: No data available

Teratogenicity: No data available

Reproductive Effects: No data available

Neurotoxicity: No data available

Mutagenicity: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence/Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATIONS

Waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Must not be disposed of together with household garbage.

14. TRANSPORT INFORMATION

DOT (US) Status: Not a DOT controlled material.

IMDG: Not dangerous goods

IATA: Not dangerous goods

15. SPECIAL PRECAUTIONS

Store as per technical data sheet. This product is intended for research use only.

16. DISCLAIMER

For internal research use only. Not for drug, household or other uses.

17. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

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