



MODERNWATER

## Material Safety Data Sheet

### ATP Reagent

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#### MATERIAL IDENTIFICATION

Manufacturer/Distributor: Modern Water Inc.  
15 Read's Way, Suite 100  
New Castle, DE 19720

Phone Number: 1-(302)669-6900

Trade Names and Synonyms: ATP Reagent (kitted part from AZF787450)

NFPA Ratings

Health:	1
Flammability:	0
Reactivity:	0

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#### OSHA HAZARD DETERMINATION

Hazardous Ingredients	CAS Number	Weight Percent
Sucrose	57-50-1	60 - 70%
HEPES Acid	75277-39-3	20 - 30%
Magnesium sulfate	7487-88-9	1 - 10%
EDTA	60-00-4	0.5 - 3%
Luciferase		0.05 - 2%
Luciferin		0.05 - 2%
Bovine serum albumin		0.5 - 2%

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## PHYSICAL DATA

Appearance: dry, white pellet

Appearance after hydration: slightly turbid solution

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## HAZARDOUS REACTIVITY

### Instability

Stable under ordinary conditions. No hazardous decomposition products. No potential for spontaneous polymerization. The chemical properties of the powdered mixture are considered stable. Non-combustible.

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## FIRE AND EXPLOSION DATA

### Fire and Explosion Hazards

Not considered to be a fire or explosion hazard.

### Extinguishing Media

If in a fire, water may be used as extinguishing medium.

### Special Fire Fighting Instructions

Wear full protective equipment and a self-contained breathing apparatus.

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## HEALTH HAZARD INFORMATION

**Primary Route(s) of Exposure/Entry:** Eye and skin contact, inhalation and ingestion.

### Signs and Symptoms of Exposure/Medical Conditions Aggravated by Exposure:

Eye contact: Pain, redness, tearing, and corneal abrasion may occur.

Skin contact: Abrasion, redness, pain, and itching may occur.

Inhalation: Cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain may occur.

Ingestion: Abdominal pain, stomach upset, nausea, vomiting and diarrhea may occur.

**Carcinogenicity:** None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

### Applicable Exposure Limits

Sucrose

ACGIH: 10 mg/m<sup>3</sup>

OSHA: respirable: 5 mg/m<sup>3</sup>

Total dust: 15 mg/m<sup>3</sup>

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## FIRST AID

- Eye Contact** Flush eyes with large amounts of water. If signs/symptoms persist, seek medical attention.
- Skin Contact** Wash affected area with soap and water. If signs/symptoms persist, seek medical attention.
- Inhalation** Remove person to fresh air. If signs/symptoms persist, seek medical attention.
- Ingestion** Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Seek medical attention.

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## PROTECTION INFORMATION

**General Control Measures and Precautions:** Ventilation - Natural ventilation.

**Personal Protective Equipment:** Respiratory Protection: None required.

Protective Gloves: Are recommended.

Eye Protection: Safety glasses with side shields are recommended.

Other Protective Equipment: Lab coat or other long – sleeved garment is recommended.

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## SPILL, LEAK AND DISPOSAL INFORMATION

**Spill, Leak, or Release** Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up.

Evacuate unprotected and untrained personnel from hazard area. Spill should be cleaned up by trained personnel. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect as much of the spilled material as possible. Vacuum or sweep up – **WARNING: A motor could be an ignition source and cause flammable gases or vapors or dust in the spill area to burn or explode.** Clean up residue and place in a closed container approved for transportation by appropriate authorities.

**Waste Disposal** Dispose of waste product in a facility permitted to accept chemical waste. Incinerate in an industrial or commercial facility in the presence of combustible material. Ensure compliance with local, state, and federal regulations.

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## SHIPPING INFORMATION

**DOT** Proper Shipping Name Not DOT regulated.

**IATA/IMO** Proper Shipping Name Not restricted.

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## TITLE III HAZARD CLASSIFICATION

Acute No

Chronic No

Fire No

Reactivity No

Pressure No

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## REGULATORY INFORMATION

**OSHA HAZARD DETERMINATION:** This material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200

**EPA DETERMINATIONS:**

**COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, & LIABILITY ACT (CERCLA/SUPERFUND), 40 CFR 302 -** This material is not known to contain hazardous substances in sufficient quantity to make it subject to CERCLA regulations.

**TOXIC SUBSTANCES CONTROL ACT (TSCA), 40 CFR 710**

The material is a mixture as defined by TSCA. The chemical ingredients in this material are in the Section 8(b) Chemical Substance Inventory and/or are otherwise in compliance with TSCA. In the case of ingredients obtained from other manufacturers, Modern Water Inc relies on the assurance of responsible third parties in providing this statement.

**RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261, SUBPARTS C AND D**

The material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable or reactive according to U.S. EPA definitions (40 CFR 261). This material could also become a

hazardous waste if it is mixed with or comes in contact with a listed hazardous waste. If it is a hazardous waste, regulations 40 CFR 262-266 and 268 may apply.

HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS, 49 CFR 171-178 - This material is not known to contain hazardous substances in sufficient quantity to make it subject to the Regulations.

**FOREIGN REGULATIONS: CANADIAN HAZARDOUS PRODUCTS ACT (WHMIS)**

The material is not a WHMIS Controlled Product.

**STATE REGULATIONS:**

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986**

("PROPOSITION 65") The material is not known to contain any ingredients (s) subject to the Act.

**PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT**

This material is not known to contain any ingredient(s) subject to the Act. Non-hazardous ingredient(s) information is withheld as trade secret in accordance with Section 11 of the Pennsylvania Worker and Community Right to Know Act.

The above data are based on tests, experience, and other information which Modern Water Inc. believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufacturers. In these instances, Modern Water, Inc., in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, MODERN WATER INC. DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A

GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY MODERN WATER, INC. WITH RESPECT TO THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO MODERN WATER INC.

Responsibility for MSDS: Modern Water Inc.  
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\* End of MSDS \*