



MODERNWATER

Material Safety Data Sheet

Ensys® TNT

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: Ensys® RDX (7002000)

NFPA Ratings

Health:	2
Flammability:	4
Reactivity:	1

OSHA HAZARD DETERMINATION

Hazardous Ingredients	CAS Number	Weight Percent
Acetone	67-64-1	≤100%
Tetrabutylammonium Hydroxide	2052-49-5	≤25%

PHYSICAL DATA

Plastic kit containing small amounts of various liquids and powders.

HAZARDOUS REACTIVITY

Instability Stable – Reactivity not expected with the product.

FIRE AND EXPLOSION DATA

Fire and Explosion Hazards There is a fire and explosion hazard with this chemical. Acetone has a flash point of 1°F and 869°F for autoignition.

Extinguishing Media	Use carbon dioxide, dry chemical powder or appropriate foam.
Special Fire Fighting Instructions	This chemical kit is highly flammable. Vapor may travel considerable distance to source of ignition and flashback.

HEALTH HAZARD INFORMATION

Primary Route(s) of Exposure/Entry: Skin, Eyes and Inhalation. Wash thoroughly after handling and take precautionary measures. If victim is experiencing difficulty in breathing, remove to fresh air and provide oxygen.

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

Skin exposure to acetone may cause irritation, redness, dryness or inflammation. Acetone may cause irritation to eyes that is characterized by a burning sensation, redness, tearing, inflammation and possible corneal injury. Inhaling or ingesting acetone may cause irritation to the digestive tract, central nervous system depression, headache, dizziness, unconsciousness, coma, respiratory tract irritation, and kidney and liver damage. May cause motor incoordination and speech abnormalities.

Tetrabutylammonium Hydroxide is extremely destructive to the tissue of the mucous membranes and upper respiratory tract, eyes and skin. Inhalation may cause spasm, inflammation, and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of overexposure may include burning sensations, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

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

Applicable Exposure Limits

Acetone

TLV (ACGIH)	1780 mg / m ³ (750 ppm)
STEL	2380 mg/m ³ (1000 ppm)
PEL (OSHA)	8H TWA 2400 mg / m ³ (1000 ppm)

Tetrabutylammonium Hydroxide

TLV (ACGIH)	260 mg/m ³
PEL (OSHA)	8H TWA 260 mg/m ³ (200 ppm)
STEL	310 mg/m ³ (250 ppm)

FIRST AID

- Inhalation** Get medical attention immediately. Remove affected person to fresh air.
- Skin Contact** The compound is not likely to be hazardous by skin contact, but may cause irritation. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. If irritation persists, contact a physician.
- Eye Contact** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes occasionally lifting upper and lower lids. Call a physician.
- Ingestion** The compound is toxic by ingestion. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Call a physician immediately.

PROTECTION INFORMATION

General Control Measures and Precautions: Ventilation – Chemical fume hood required.

Personal Protective Equipment: Respiratory Protection: NIOSH/MSHA - approved respirator face shield (8 inch minimum)

Protective Gloves: Are highly recommended.

Eye Protection: Safety glasses are required.

Other protective equipment: A lab coat or other long-sleeved garment is required to limit skin exposure. Access to safety shower and eyewash is required.

SPILL, LEAK AND DISPOSAL INFORMATION

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

Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.

No special clean up practices are required. Absorb spill with inert material and collect in suitable waste container.

Waste Disposal Dispose of as solid waste in accordance with any applicable federal, state, and local requirements.

SHIPPING INFORMATION

DOT Proper Shipping Name Not DOT regulated.

IATA/IMO Proper Shipping Name Not restricted.

TITLE III HAZARD CLASSIFICATION

Acute No

Chronic No

Fire No

Reactivity No

Pressure No

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.
15 Read's Way, Suite 100
New Castle, DE 19720
302-669-6900

Revised October 2012

* End of MSDS *