

Prepared to European Directives

1. PRODUCT IDENTIFICATION

1.1 TRADE NAME (AS LABELED):	Newman Zone 60E
SYNONYMS:	None known
CAS#:	Mixture
1.2 PRODUCT USE:	This product is used for soil and ground water remediation.
1.3 MANUFACTURER'S NAME:	RNAS Remediation Products
ADDRESS:	6712 West River Road, Brooklyn Center, MN 55430
BUSINESS PHONE:	1-763-585-6191
1.4 EMERGENCY PHONE:	1-800-424-9300 (Chemtrec 24 Hr Service – Emergency Only)

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product is an opaque white liquid with a slight alcohol odor.

Health Hazards: Prolonged or repeated exposure may cause irritation to skin. May cause irritation to eyes upon contact. Inhalation of vapors/sprays or mist may cause respiratory irritation. Ingestion of large amounts of this product may cause gastrointestinal irritation.

Flammability Hazards: This product is a Flammable liquid with a flash point of >100°F (>37.6°C)

Reactivity Hazards: None known

Environmental Hazards: The Environmental effects of this product have not been investigated. Release of this product is not anticipated to have significant adverse effects in the aquatic environment.

2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE IN ACCORDANCE WITH 29 CFR 1910.1200 (OSHA HCS) AND THE EUROPEAN UNION DIRECTIVES:

This product does meet the definition of a hazardous substance or preparation as defined by OSHA in 29 CFR 1910.1200 or the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:
EC# 200-578-6 Annex VI Index# 603-002-00-5

Balance of ingredients are not listed in Annex VI

Substances not listed either individually or in group entries must be self classified.

2.2 Label Elements:

Component(s) Contributing to Classification(s)

Ethanol

Signal Word: **Warning!**

(GHS) Hazard Symbols



GHS Hazard Classification(s):

Flammable Liquid Category 3

Acute Oral Toxicity Category 4

Eye Irritant Category 2

Hazard Statement(s):

H226: Flammable liquid and vapor

H302: Harmful if swallowed

H319: Causes serious eye irritation

Response Statement(s):

P301+P312: IF SWALLOWED: Call a Poison Center/Doctor

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

Precautionary Statement(s):

P210: Keep away from heat/sparks/open flames/ hot surfaces. No Smoking

P233: Keep container tightly closed.

P280: Wear protective gloves/eye protection/face protection.

P308+P313: IF exposed or concerned: Get medical advice/attention.

Storage Statement(s):

P403+P235: Store in a well-ventilated place. Keep cool.

P404: Store in a closed container

Disposal Statement(s):

P501: Dispose of contents/container in accordance with local/national/international regulations.

2.3 Other Known Hazard(s):

This mixture does not meet the criteria for PBT or vPvB in accordance with Annex VII.
No other hazards known

3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

Hazardous Ingredients:	WT%	CAS#	EINECS #	Hazard Classification
Food Grade Soybean Oil	60%	8001-22-7	232-274-4	Not Classified
Water	28%	7732-18-5	231-791-2	Not Classified
Ethanol	6%	64-17-5	200-578-6	H225: Flammable Liquid Cat 3, H302: Acute Oral Toxicity Cat 4, H319: Eye Irritant Cat 2
Food Grade Surfactant	6%	1338-43-8	215-665-4	Not Classified
Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).				

NOTE: This product has been classified in accordance with the hazard criteria of EU Directives.

4. FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water. Remove contact lenses if easy to do and continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.

SKIN CONTACT: Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

INGESTION: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Contact with eyes may cause irritation with redness and tearing. Not expected to cause delayed effects from exposure.

4.3 RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

5. FIRE-FIGHTING MEASURES

5.1 FIRE EXTINGUISHING MATERIALS:

Use fire extinguishing methods below:

Water Spray: Yes Carbon Dioxide: Yes

Foam: Yes Dry Chemical: Yes

Halon: Yes Other: Any "C" Class

5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back.

Explosion Sensitivity to Mechanical Impact: No

Explosion Sensitivity to Static Discharge: Yes

5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Use cautious judgment when cleaning up spill. Shut off leaks, if possible without personal risk. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas

6.2 ENVIRONMENTAL PRECAUTIONS:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

6.3 SPILL AND LEAK RESPONSE:

Small spills: Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal.

Large spills: Approach suspected leak areas with caution. Create a dike or trench to contain material. Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

7. HANDLING and STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

To prevent skin and eye contact under the foreseeable conditions of use, wear appropriate protective clothing and safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Avoid breathing fumes. Handle in a well-ventilated work area.

7.2 STORAGE AND HANDLING PRACTICES:

Store in original container. Keep container closed when not in use. Store in a cool, dry location away from heat sources or other sources of ignition. – No Smoking

7.3 SPECIFIC USES:

This product is used for soil and ground water remediation.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Food Grade Soybean Oil	8001-22-7	Not Listed	Not Listed
Water	7732-18-5	Not Listed	Not Listed
Ethanol	64-17-5	1000 ppm	1000 ppm
Food Grade Surfactant Blend	1338-43-8	Not Listed	Not Listed

8.2 EXPOSURE CONTROLS:

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: Not normally required when using this product. Maintain airborne contaminant concentrations below guidelines listed above. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Safety glasses or goggles are recommended to avoid eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

SKIN PROTECTION: Wear impervious gloves for prolonged or repeated exposure as appropriate to task avoid when using this product. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: Use body protection appropriate to task being performed. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

9. PHYSICAL and CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE (Physical State) and COLOR: This product is an opaque white liquid with a slight alcohol odor.

ODOR: Slight

ODOR THRESHOLD: Not Available

pH: 6.0 – 8.0

MELTING/FREEZING POINT: Not Available

BOILING POINT: <99°C / 210°F @ 760 mmHg

FLASH POINT: >37.6°C / >100°F

EVAPORATION RATE (n-BuAc=1): Not Available

FLAMMABILITY (SOLID, GAS): Not Applicable

UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS: Not Available

VAPOR PRESSURE (mm Hg @ 20°C (68°F): Similar to water 23 mmHg @ 25°C

VAPOR DENSITY: Not Available

SPECIFIC GRAVITY: 0.95 @ 25°C

SOLUBILITY IN WATER: Dispersible in water

WEIGHT PER GALLON: 7.91 lb/gal

PARTITION COEFFICIENT (n-octanol/water): Not Available

AUTO-IGNITION TEMPERATURE: Not Available

DECOMPOSITION TEMPERATURE: Not Available

VISCOSITY: 25 Centipoise

9.2 OTHER INFORMATION:

None known

10. STABILITY and REACTIVITY

10.1 REACTIVITY:

None known

10.2 CHEMICAL STABILITY:

Stable under conditions of normal storage and use.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Will not occur.

10.4 CONDITIONS TO AVOID:

Incompatible materials and ignition sources.

10.5 INCOMPATIBLE MATERIALS:

Strong oxidizing materials, strong acids and excessive heat.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition products include oxides of carbon.

11. TOXICOLOGICAL INFORMATION

11.1 TOXICITY DATA:

Chemical Name	CAS#	Oral LD50	Dermal LD50	Inhalation LC50
Food Grade Soybean Oil	8001-22-7	No Data Available	No Data Available	No Data Available
Water	7732-18-5	No Data Available	No Data Available	No Data Available
Ethanol	64-17-5	6300 mg/kg	20000 mg/kg	20000 ppm/10H
Food Grade Surfactant Blend	1338-43-8	No Data Available	No Data Available	No Data Available

Acute Toxicity	Acute Toxicity Category 4 (Oral)
Skin Corrosion / Irritation	Based on available data, the classification criteria are not met
Serious Eye Damage / Irritation	Eye Irritant Category 2
Respiratory or Skin Sensitization	Based on available data, the classification criteria are not met

Germ Cell Mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive Toxicity	Based on available data, the classification criteria are not met
STOT – Single Exposure	Specific Target Organ Toxicity Category 3
STOT – Repeated Exposure	Based on available data, the classification criteria are not met
Aspiration Hazard	Based on available data, the classification criteria are not met

Ethanol CAS# 64-17-5
 Draize test, rabbit, eye: 500 mg Severe;
 Draize test, rabbit, eye: 500 mg/24H Mild;
 Draize test, rabbit, skin: 20 mg/24H Moderate;
 Inhalation, mouse: LC50 = 39 gm/m³/4H;
 Inhalation, rat: LC50 = 20000 ppm/10H;
 Oral, mouse: LD50 = 3450 mg/kg;
 Oral, rabbit: LD50 = 6300 mg/kg;
 Oral, rat: LD50 = 7060 mg/kg;<br.

HEALTH HAZARDS OR RISKS FROM EXPOSURE:

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin or eyes, inhalation of vapors and ingestion. The symptoms of overexposure are described below.

ACUTE:

INHALATION: Not expected to cause adverse health effects when used as intended. Inhalation of vapors/mist/spray may cause respiratory irritation.

CONTACT WITH SKIN: Not expected to cause adverse health effects when used as intended. Prolonged and repeated contact may cause irritation to skin.

EYE CONTACT: Direct eye contact can cause irritation with redness, tearing and blurred vision.

INGESTION: Under normal conditions of intended use, this material is not expected to be an ingestion hazard. Ingestion of large quantities may cause gastrointestinal irritation, nausea and vomiting.

CHRONIC: None known

SUSPECTED CANCER AGENT: Ingredients within this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be, or suspected to be, cancer-causing agents by these agencies.

IRRITANCY OF PRODUCT: No specific data available

SENSITIZATION TO THE PRODUCT: This product is not a skin and respiratory sensitizer

REPRODUCTIVE TOXICITY INFORMATION: No information concerning the effects of this product and its components on the human reproductive system.

12. ECOLOGICAL INFORMATION

12.1 TOXICITY:

No toxicity data available

12.2 PERSISTENCE AND DEGRADABILITY:

No specific data available on this product.

12.3 BIOACCUMULATIVE POTENTIAL:

No specific data available on this product.

12.4 MOBILITY IN SOIL:

No specific data available on this product.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT:

No specific data available on this product.

12.6 OTHER ADVERSE EFFECTS:

This product may be harmful to plants, animals or aquatic life.

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

12.7 WATER ENDANGERMENT CLASS:

May be water endangering in accordance with EU Guideline 91/155-EWG. Do not allow product to reach ground water, water course or sewage system. At present there are no ecotoxicological assessments for this product.

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

13.2 EU WASTE CODE:

Not determined

14. TRANSPORTATION INFORMATION

TRANSPORTATION INFORMATION

14.1 UN IDENTIFICATION NUMBER:

UN1170

14.2 PROPER SHIPPING NAME:

Ethanol Solution (Ethyl Alcohol Solution)

14.3 HAZARD CLASS NUMBER and DESCRIPTION:

Flammable liquid, Class 3

14.4 PACKING GROUP:

PG III

LABEL(S) REQUIRED:

Flammable Class 3

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: 127

RQ QUANTITY

None

14.5 ENVIRONMENTAL HAZARDS:

MARINE POLLUTANT: The components of this product are not designated by the U.S. Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.6 SPECIAL PRECAUTION FOR USER:

None

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND IBC CODE:

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is considered by the United Nations Economic Commission for Europe to be dangerous goods.

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

This product does meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

See Section 2 for Details

15.2 CHEMICAL SAFETY ASSESSMENT:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16. OTHER INFORMATION

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac: Listed or Exempt from listing

Australian Inventory of Chemical Substances (AICS): Listed or Exempt from listing

Korean Existing Chemicals List (ECL): Listed or Exempt from listing

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed or Exempt from listing

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed or Exempt from listing

Swiss Giftlist List of Toxic Substances: Listed or Exempt from listing

U.S. TSCA: Listed

ABBREVIATIONS AND ACRONYMS:

EPA: United States Environmental Protection Agency

ARD: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PREPARED BY: Paul Eigbrett – **(GHS MSDS Compliance PLUS)**

DATE OF CURRENT REVISION: November 1, 2021
DATE OF LAST REVISION: New

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Remediation and Natural Attenuation Services Inc. assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Remediation and Natural Attenuation Services Inc. assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

END OF SDS SHEET