

### 1. PRODUCT IDENTIFICATION

<b>TRADE NAME (AS LABELED):</b>	<b>Newman Zone HRO</b>
<b>SYNONYMS:</b>	None known
<b>CAS#:</b>	Mixture
<b>PRODUCT USE:</b>	This product is used for soil and ground water remediation. It is formulated and processed using food grade additives, following packaging, sanitation and storage as required by Best Practices used for Food products.
<b>CHEMICAL SHIPPING NAME/CLASS:</b>	Non-Regulated Material
<b>U.N. NUMBER:</b>	None
<b>MANUFACTURER'S NAME:</b>	<b>RNAS Remediation Products</b>
<b>ADDRESS:</b>	6712 West River Road, Brooklyn Center, MN 55430
<b>BUSINESS PHONE:</b>	1-763-585-6191
<b>EMERGENCY PHONE:</b>	1-800-424-9300 (Chemtrec 24 Hr Service – Emergency Only)
<b>DATE OF CURRENT REVISION:</b>	September 5, 2024
<b>DATE OF LAST REVISION:</b>	January 16, 2016

### 2. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW:** This product is a clear light yellow colored liquid with a vegetable oil 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 Non-Flammable liquid with a flash point of >235°F (>113°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.

**US DOT SYMBOLS**  
Non-Hazardous Material

**EUROPEAN and (GHS) Hazard Symbols**  
None  
Signal Word: **None**

#### GHS LABELING AND CLASSIFICATION:

This product does not meet the definition of a hazardous substance or preparation as defined by 29 CFR 1910. 1200 and regulation (EU) No. 2020/878 and regulation (EC) No. 1272/2008.

#### EU HAZARD CLASSIFICATION OF INGREDIENTS:

None of the ingredients are listed in Annex VI  
Substances not listed either individually or in group entries must be self classified.

#### Component(s) Contributing to Classification(s):

None applicable

#### GHS Hazard Classification(s):

None known

#### Hazard Statement(s):

None known

#### Precautionary Statement(s):

None known

#### 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

**TARGET ORGANS:** **Acute:** Skin, Respiratory System and Eyes      **Chronic:** None known

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients:	WT%	CAS#	EINECS #	GHS Hazard Classification(s)
Blend of Soybean Oil and Soybean Oil Esters	85 - 95%	8001-22-7	232-274-4	Not Classified
Proprietary Food Grade Surfactant Blend	5 – 15%	Proprietary	Not Listed in ESIS	Not Classified
Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).				

### 4. FIRST-AID MEASURES

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water 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.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known

**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and eliminate overexposure.

### 5. FIRE-FIGHTING MEASURES

**FLASH POINT:** Non-Flammable with flash point >235°F (>113°C)

**AUTOIGNITION TEMPERATURE:** Not Available

**FLAMMABLE LIMITS (in air by volume, %):** Lower NA Upper NA

**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

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Not considered a fire or explosion hazard. During a fire irritating gases may be produced.

Explosion Sensitivity to Mechanical Impact: No

Explosion Sensitivity to Static Discharge: No

**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

**SPILL AND LEAK RESPONSE:** Stop the flow of material, if this can be done safely. Contain discharged material. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Place in a proper container for 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

**WORK PRACTICES AND HYGIENE PRACTICES:** As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Use good hygiene practices.

**STORAGE AND HANDLING PRACTICES:** Store in original container. Keep container closed when not in use. Store in a cool, dry location. Avoid freezing or extended storage in high temperatures and away from incompatible materials.

### 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Blend of Soybean Oil and Soybean Oil Esters	8001-22-7	10 mg/m <sup>3</sup> Oil Mists	15 mg/m <sup>3</sup> Oil Mists
Proprietary Food Grade Surfactant Blend	Proprietary	10 mg/m <sup>3</sup> Oil Mists	15 mg/m <sup>3</sup> Oil Mists

**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 required when using this product. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. 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

**APPEARANCE (Physical State) and COLOR:** This product is a clear light yellow colored liquid with a vegetable oil odor.

**ODOR:** Slight

**ODOR THRESHOLD:** Not Applicable

**pH:** Not Available

**MELTING/FREEZING POINT:** Not Available

**BOILING POINT:** Not Available

**FLASH POINT:** >235°F (>113°C)

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

**FLAMMABILITY (SOLID, GAS):** Not Applicable

**UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS:** Not Applicable

**VAPOR PRESSURE (mm Hg @ 20°C (68°F):** Not Available

**VAPOR DENSITY:** Not Available

**SPECIFIC GRAVITY: 0.92 @ 25°C**

**SOLUBILITY IN WATER:** Non - Soluble

**WEIGHT PER GALLON:** 7.68 Lbs per gal

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

**AUTO-IGNITION TEMPERATURE:** Not Applicable

**DECOMPOSITION TEMPERATURE:** Not Available

**VISCOSITY:** Not Available

#### INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES

**EXPLOSIVES:** Not Available

**FLAMMABLE GASES:** Not Available

**AEROSOLS:** Not Available  
**OXIDISING GASES:** Not Available  
**GASES UNDER PRESSURE:** Not Available  
**FLAMMABLE LIQUIDS:** Not Available  
**FLAMMABLE SOLIDS:** Not Available  
**SELF-REACTIVE SUBSTANCES AND MIXTURES:** Not Available  
**PYROPHORIC LIQUIDS:** Not Available  
**PYROPHORIC SOLIDS:** Not Available  
**SELF-HEATING SUBSTANCES AND MIXTURES:** Not Available  
**SUBSTANCES AND MIXTURES, WHICH EMIT FLAMMABLE GASES IN CONTACT WITH WATER:** Not Available  
**OXIDISING LIQUID:** Not Available  
**OXIDISING SOLID:** Not Available  
**ORGANIC PEROXIDES:** Not Available  
**CORROSIVE TO METALS:** Not Available  
**DESENSITISED EXPLOSIVES:** Not Available  
**GASES UNDER PRESSURE:** Not Available  
**OTHER SAFETY CHARACTERISTICS**  
**MECHANICAL SENSITIVITY:** Not Available  
**SELF-ACCELERATING POLYMERISATION TEMPERATURE:** Not Available  
**FORMATION OF EXPLOSIBLE DUST/AIR MIXTURES:** Not Available  
**ACID/ALKALINE RESERVE:** Not Available  
**EVAPORATION RATE:** Not Available  
**MISCIBILITY:** Not Available  
**CONDUCTIVITY:** Not Available  
**CORROSIVENESS:** Not Available  
**GAS GROUP:** Not Available  
**REDOX POTENTIAL:** Not Available  
**RADICAL FORMATION POTENTIAL:** Not Available  
**PHOTOCATALYTIC PROPERTIES:** Not Available

## 10. STABILITY and REACTIVITY

**STABILITY:** Stable under conditions of normal storage and use.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition products include oxides of carbon and irritating odors.  
**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** Strong oxidizing materials.  
**POSSIBILITY OF HAZARDOUS REACTIONS:** Will not occur.  
**CONDITIONS TO AVOID:** Incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

**TOXICITY DATA:**  
No LD50 Data available for this product.  
**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, nor 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

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

**TOXICITY:** No specific data available on this product.  
**PERSISTENCE AND DEGRADABILITY:** No specific data available on this product.  
**BIOACCUMULATIVE POTENTIAL:** No specific data available on this product.  
**MOBILITY IN SOIL:** No specific data available on this product.

**RESULTS OF PBT AND vPvB ASSESSMENT:** No specific data available on this product.

**ENDOCRINE DISRUPTING PROPERTIES:** No specific data available on this product.

**OTHER ADVERSE EFFECTS:** No specific data available on this product.

**WATER ENDANGERMENT CLASS:** No data available. At present there are no ecotoxicological assessments for this product.

### 13. DISPOSAL CONSIDERATIONS

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

**EU Waste Code:** Not determined.

### 14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

**U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:** This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows:

**PROPER SHIPPING NAME:** Non-Regulated Material

**HAZARD CLASS NUMBER and DESCRIPTION:** None

**UN IDENTIFICATION NUMBER:** None

**PACKING GROUP:** NA

**DOT LABEL(S) REQUIRED:** None

**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER:** None

**RQ QUANTITY:** None

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

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is not considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is not considered as dangerous goods.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is not considered by the United Nations Economic Commission for Europe to be dangerous goods.

### 15. REGULATORY INFORMATION

#### UNITED STATES REGULATIONS:

**U.S. SARA REPORTING REQUIREMENTS:** The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act as follows: None.

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** None.

**U.S. TSCA INVENTORY STATUS:** The components of this product are listed on the TSCA Inventory or are exempted from listing.

**OTHER U.S. FEDERAL REGULATIONS:** None

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** Ingredients within this product are not on the Proposition 65 Lists.

#### CANADIAN REGULATIONS:

**CANADIAN DSL/NDL INVENTORY STATUS:** The components of this product are on the DSL Inventory, or are exempted from listing.

**OTHER CANADIAN REGULATIONS:** Not applicable.

#### **CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** Complies with WHMIS 2015.

**EUROPEAN ECONOMIC COMMUNITY INFORMATION:**

This product does not 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.

**AUSTRALIAN INFORMATION FOR PRODUCT:** The components of this product are listed on the International Chemical Inventory list.

**JAPANESE INFORMATION FOR PRODUCT:**

**JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:** The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

**JAPANESE ENCS INVENTORY:** The components of this product are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.

**POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW:** No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

**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

## 16. OTHER INFORMATION

<p><b>HMIS Rating (Scale 0-4)</b> Health hazard: 1 Flammability: 0 Physical Hazard: 0</p>	<p><b>NFPA Rating (Scale 0-4)</b> Health hazard: 1 Flammability: 0 Physical Hazard: 0</p>
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**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:** Chris Eigbrett (MSDS to GHS Compliance)

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.

## REVISION HISTORY

September 5, 2024

- Document Review / Update

**END OF SDS SHEET**