

### 1. PRODUCT IDENTIFICATION

<b>TRADE NAME (AS LABELED):</b>	<b>Newman Zone QR-90</b>
<b>SYNONYMS:</b>	N/A
<b>CAS#:</b>	Mixture
<b>PRODUCT USE:</b>	This product is used for soil and ground water remediation. This product provides microbes with a variety of soluble electron donors, nutrients and vitamins that stimulate microbial growth.
<b>CHEMICAL SHIPPING NAME/CLASS:</b>	Ethanol, Solution
<b>U.N. NUMBER:</b>	UN1170
<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>	March 16, 2018
<b>DATE OF LAST REVISION:</b>	New

### 2. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW:** This product is a pale-yellow liquid.  
**Health Hazards:** May be harmful if swallowed.  
**Flammability Hazards:** This product is a flammable liquid with a flash point of 62°F – 75°F.  
**Reactivity Hazards:** None known.  
**Environmental Hazards:** The Environmental effects of this product have not been investigated. Release of this product may adverse effects in the aquatic environment.

US DOT SYMBOLS

CANADA (WHMIS) SYMBOLS

EUROPEAN and (GHS) Hazard Symbols

Non-Regulated Material

Complies with WHMIS 2015



Signal Word: **Danger!**

**GHS LABELING AND CLASSIFICATION:**

This product does meet the definition of a hazardous substance or preparation as defined by 29CFR 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 # 603-002-00-5

EC 200-661-7 Annex VI # 603-117-00-0

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

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

Ethanol, Isopropanol

**GHS Hazard Classification(s):**

Flammable Liquid Category 2

**Hazard Statement(s):**

H225: Highly flammable liquid and vapour

**Prevention Statement(s):**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P280: Wear protective gloves/ eye protection.

**Response Statement(s):**

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P370+P378: In case of fire: Use media defined in Section 5 to extinguish.

**Storage Statement(s):**

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

**Disposal Statement(s):**

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

**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, and ingestion. The symptoms of overexposure are described below.

**ACUTE:**

**INHALATION:** None anticipated under normal conditions.

**CONTACT WITH SKIN:** Prolonged or repeated contact may cause irritation.

**EYE CONTACT:** Direct eye contact can cause irritation.

**INGESTION:** May be harmful if swallowed.

**CHRONIC:** None known

**TARGET ORGANS:** Acute: Skin and Eyes      Chronic: None known

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS#	EINECS #	GHS Hazard Classification(s)
Ethanol	30-35%	64-17-5	200-578-6	Flammable Liq Cat 2
Isopropanol	< 3%	67-63-0	200-661-7	Flammable liq Cat 2, Eye Irritation Cat 2, STOT SE Cat 3
All ingredients are either nonhazardous or 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 29CFR1910.1200 and the SDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250: 2000.

### 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:** Pre-existing skin or eye disorders may be impacted by this product.

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

### 5. FIRE-FIGHTING MEASURES

**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

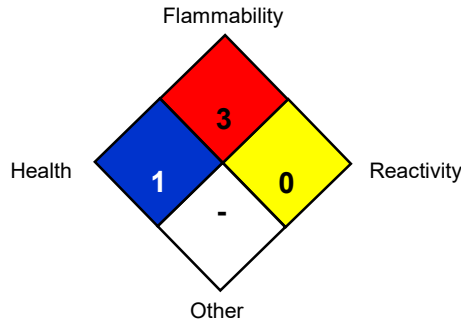
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** No specific data available.

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.

### NFPA RATING SYSTEM



### HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)	1		
FLAMMABILITY HAZARD (RED)	3		
PHYSICAL HAZARD (YELLOW)	0		
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## 6. ACCIDENTAL RELEASE MEASURES

**SPILL AND LEAK RESPONSE:** Personnel should be trained for spill response operations.

**SPILLS:** Contain spill if safe to do so. Sweep or vacuum up and place in an appropriate closed container. Clean up residual material by washing area with water and detergent. Dike or retain dilution water or water from firefighting for later disposal. Dispose of in accordance with applicable Federal, State, and local procedures (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

Hazardous Ingredients:	CAS#	ACGIH	OSHA
Ethanol	64-17-5	1000 ppm	1000 ppm 1900 mg/m <sup>3</sup>
Isopropanol	67-63-0	200 ppm	400 ppm 980 mg/m <sup>3</sup>

**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:** 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 required 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 as appropriate to task 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:** Pale-yellow Liquid **ODOR:**

Not available

**ODOR THRESHOLD:** Not Available

**pH:** 7.0 – 7.5

**MELTING/FREEZING POINT:** Not Available

**BOILING POINT:** Not Available

**FLASH POINT:** 62°F – 75°F

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

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

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

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

**VAPOR DENSITY:** Not Available

**DENSITY:** 1.05 g/cm<sup>3</sup>

**SOLUBILITY IN WATER:** Soluble

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

**AUTO-IGNITION TEMPERATURE:** Not Available

**DECOMPOSITION TEMPERATURE:** Not Available

**VISCOSITY:** Not Available

### 10. STABILITY and REACTIVITY

**STABILITY:** Stable under conditions of normal storage and use.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon oxides.

**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** Strong oxidizing agents, alkali metals.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Will not occur.

**CONDITIONS TO AVOID:** Sources of ignition, extreme heat, contact with incompatibles.

### 11. TOXICOLOGICAL INFORMATION

#### TOXICITY DATA:

Ethanol: LD50 Oral – Rat – 10,470 mg/kg  
LC50 Inhalation – Rat – 30,000 mg/l (4h)  
LD50 Dermal – Rabbit – 15,800 mg/kg

Isopropanol: LD50 Oral – Rat – 5045 mg/kg  
LC50 Inhalation – Rat – 37.5 mg/l (4h)  
LD50 Dermal – Rabbit – 12800 mg/kg

**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:** This product may cause skin or eye irritation.

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

**REPRODUCTIVE TOXICITY INFORMATION:** This product does not contain chemicals which are suspected to be reproductive hazards.

**MUTAGENICITY INFORMATION:** Data not sufficient for a classification.

**SINGLE TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Data not sufficient for a classification.

**SINGLE TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** Data not sufficient for a classification.

**ASPIRATION HAZARD:** Data not sufficient for a classification.

### 12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

**TOXICITY DATA:**

Ethanol: LC50 – 41,200 mg/l (96 hr) – Fathead minnow  
LC50 – 5012 mg/l (48 hr) – Water flea  
Isopropanol: LC50 – 9640 mg/l (96 hr) – Fathead minnow  
EC50 – 13,299 mg/l (48h) – Water flea

**ENVIRONMENTAL STABILITY:** No specific data available for this product.

**CHEMICAL EFFECT ON PLANTS, ANIMALS AND AQUATIC LIFE:** This product may cause harm to plants, animals or aquatic life.

**WATER ENDANGERMENT CLASS:** Water endangering in accordance with EU Guideline 91/155-EWG – Not Determined.

**SPECIFIC AVAILABLE COMPONENT INFORMATION:** No additional data available at this time.

### 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:** Ethanol, Solution  
**HAZARD CLASS NUMBER and DESCRIPTION:** Class 3, Flammable Liquid  
**UN IDENTIFICATION NUMBER:** UN1170  
**PACKING GROUP:** II  
**DOT LABEL(S) REQUIRED:** Flammable Liquid  
**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER:** 127  
**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 considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is considered as dangerous goods.

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

**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:

SARA 313: Isopropanol CAS 67-63-0

**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 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 Giffliste List of Toxic Substances: Listed or Exempt from listing

U.S. TSCA: Listed

## 16. OTHER INFORMATION

**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)**

**DATE OF PRINTING:** March 16, 2018

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**