

## MATERIAL SAFETY DATA SHEET

### Section 1. Product Identification

#### Product Identifier

Product Form : Mixture

PRODUCT NAME: FORMULA 303 R

#### Intended Use of the Product

For professional use only

### Section 2. Hazards Identification

#### Classification of the Substance or Mixture

#### GHS Classification

Acute Tox. 3 (Oral) H301 Eye Irrit. 2A H319

Aquatic Acute 1 H400

#### Label Elements

GHS Labeling

Hazard Pictograms :



Signal Word : Danger

Hazard Statements :  
H301 - Toxic if swallowed.  
H319 - Causes serious eye irritation.  
H400 - Very toxic to aquatic life.

Precautionary Statements :  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or 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.

P321 - Specific treatment (see section 4 on this SDS).

P330 - Rinse mouth.

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

P391 - Collect spillage.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Ingestion may cause methemoglobinemia. Initial manifestation of methemoglobinemia is cyanosis, characterized by navy lips, tongue and mucous membranes, with skin color being slate grey. Further manifestation is characterized by headache, weakness, dyspnea, dizziness, stupor, respiratory distress and death due to anoxia. If ingested, nitrates may be reduced to nitrites by bacteria in the digestive tract. Signs and symptoms of nitrite poisoning include methemoglobinemia, nausea, dizziness, increased heart rate, hypotension, fainting and, possibly shock.

### Unknown acute toxicity

No data available

## Section 3. Composition/Information on Ingredients

### Mixture

Name	Product identifier	%*	GHS ingredient classification
Water	(CAS No) 7732-18-5	47 - 72	Not classified
Sodium nitrite	(CAS No) 7632-00-0	28 - 49	Ox. Sol. 2, H272 Acute Tox. 3 (Oral), H301 Eye Irrit. 2A, H319 Aquatic Acute 1, H400

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients.

## Section 4. First Aid Measures

### Description of First-aid Measures

- General** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).
- Inhalation** : Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
- Skin Contact** : Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.
- Eye Contact** : Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
- Ingestion** : Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### Most Important Symptoms and Effects Both Acute and Delaye

- General** : Toxic if swallowed. Causes serious eye irritation.
- Inhalation** : May cause respiratory irritation.
- Skin Contact** : May cause skin irritation.
- Eye Contact** : Causes serious eye irritation. Redness, pain.
- Ingestion** : Ingestion may cause methemoglobinemia. Initial manifestation of methemoglobinemia is cyanosis, characterized by navy lips, tongue and mucous membranes, with skin color being slate grey. Further manifestation is characterized by headache, weakness, dyspnea, dizziness, stupor, respiratory distress and death due to anoxia. If ingested, nitrates may be reduced to nitrites by bacteria in the digestive tract. Signs and symptoms of nitrite poisoning include methemoglobinemia, nausea, dizziness, increased heart rate, hypotension, fainting and, possibly shock.
- Chronic Symptoms** : None expected under normal conditions of use.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

## Section 5. Fire Fighting Measures

### Extinguishing Media

Suitable Extinguishing Media: Water spray, fog.

**Unsuitable Extinguishing Media** : Do not use carbon dioxide. Do not use ABC dry chemical agents. Do not use a heavy water stream.

Use of heavy stream of water may spread fire.

**Special Hazards Arising From the Substance or Mixture**

**Fire Hazard** : Not flammable.  
**Explosion Hazard** : Risk of explosion if heated under confinement.  
**Reactivity** : Hazardous reactions will not occur under normal conditions.

**Advice for Firefighters**

**Precautionary Measures Fire** : Exercise caution when fighting any chemical fire.  
**Firefighting Instructions** : Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.  
**Protection During Firefighting** : Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products** : Nitrogen oxides.  
**Other Information** : Refer to Section 9 for flammability properties.

**Reference to Other Sections**

Refer to Section 9 for flammability properties.

**Section 6. Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures** : Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

**For Non-Emergency Personnel**

**Protective Equipment** : Use appropriate personal protective equipment (PPE).  
**Emergency Procedures** : Evacuate unnecessary personnel.

**For Emergency Personnel**

**Protective Equipment** : Equip cleanup crew with proper protection.  
**Emergency Procedures** : Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### Methods and Materials for Containment and Cleaning Up

**For Containment** : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up** : Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## Section 7. Handling and Storage

### Precautions for Safe Handling

**Hygiene Measures** : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures** : Comply with applicable regulations. Do not pressurize, cut, or weld containers.

**Storage Conditions** : Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely high or low temperatures and incompatible materials.

**Incompatible Materials** : Strong acids. Strong bases. Strong oxidizers.

### Specific End Use(s)

For professional use only.

## Section 8. Exposure Controls / Personal Protection

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

**Exposure Controls**

**Appropriate Engineering Controls** : Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment** : Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing** : Chemically resistant materials and fabrics.

**Hand Protection** : Wear chemically resistant protective gloves.

**Eye Protection** : Chemical safety goggles.

**Skin and Body Protection** : Wear suitable protective clothing.

**Respiratory Protection** : In case of insufficient ventilation, wear suitable respiratory equipment.

**Environmental Exposure Controls** : Do not allow the product to be released into the environment.

**Consumer Exposure Controls** : Do not eat, drink or smoke during use.

**Section 9. PHYSICAL DESCRIPTION / PROPERTIES**

Information on Basic Physical and Chemical Properties

**Physical State** : Liquid  
**Appearance** : Clear, pale-green colored  
**Odor** : Odorless  
**Odor Threshold** : Not available  
**pH : 9 - 9.7 Evaporation Rate** : Not available  
**Melting Point** : Not available  
**Freezing Point** : Not available  
**Boiling Point** : Not available  
**Flash Point** : Not available  
**Auto-ignition Temperature** : Not available  
**Decomposition Temperature** : Not available

Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20°C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.30 - 1.45
Solubility	: Water: 100% in water
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available

## Section 10. Stability and Reactivity

Reactivity	: Hazardous reactions will not occur under normal conditions.
Chemical Stability	: Stable under recommended handling and storage conditions (see section 7).
Possibility of Hazardous Reactions	: Hazardous polymerization will not occur.
Conditions to Avoid	: Extremely high or low temperatures. Incompatible materials.
Incompatible Materials	: Strong acids. Strong bases. Strong oxidizers.
Hazardous Decomposition Products	: None expected under normal conditions of use.

## Section 11. Toxicological Information

### Information on Toxicological Effects - Product

Acute Toxicity (Oral)	: Oral: Toxic if swallowed.
Acute Toxicity (Dermal)	: Not classified
Acute Toxicity (Inhalation)	: Not classified

## Section 12. Ecological Information

### Environmental fate and transport

Biodegradation	: No information available
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### Environmental toxicity

Acute toxicity to aquatic invertebrates	: No information available
Toxicity to aquatic plants	: No information available
Other ecotoxicological advice	: No information available

### Section 13. Disposal Considerations

Waste Disposal Recommendations : Dispose of waste material in accordance with all local, regional, national, and international regulations.

Ecology - Waste Materials : Avoid release to the environment.

### Section 14. Transport Information

Not regulated

### Section 15. Regulatory Information

No information available

### Section 16. Other Information

Further information :The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties.