



VNYM™

PRODUCT DESCRIPTION

VNYM™ is an environmentally friendly and fully functional acid replacement for traditional acids commonly used in water treatment, well-servicing, and drilling.

Publish Date: January 2020

FEATURES

- Replaces harsh mineral acids when reducing pH of reclaimed water without posing significant challenges in storage and use.
- Certified to NSF/ANSI 60 specifications for use on potable water systems and wells and is used for a variety of descaling, rehabilitation, titration and corrosions control.
- No harsh smell or dangerous fumes and has been proven to pose no inhalation risk, exceeds D.O.T and OSHA requirements and requires no secondary containment.
- Outperforms hydrochloric acid formulations in a wide variety of industries
- 15% faster at dissolving calcium carbonate than muriatic acid.

BENEFITS

- Triple-Zero HMIS Score
- Kosher Pareve Approved
- Certified to NSF/ANSI 60 Specifications
- Non-Corrosive
- Non-Fuming
- 100% Biodegradable
- Non-Mutagenic to Fish and Wildlife

Technical Information

The formula and ingredients meet and exceeds EPA's Safer Choice program requirements for both the safety to the environment and the user.

Biodegradable: YES/100%	Flammability: Non-Flammable
Form: Liquid	Boiling Point: 253° F
Odor: Mild Odor	Solubility in Water: 100%
Cold Stability: -16° F	VOCs: None
Detergency: Moderate	Volatile by Volume: N/A
Phosphates: None	Carcinogens: None
Wetting Ability: Excellent	Shelf Life: 1 Year

DOT Statement

Non-D.O.T Regulated/Non-D.O.T. Hazardous
Exempt as per 49 CFR 173.154(d) (2) <6.25
mmpy

Storage and Handling

VNYM™ is freeze/thaw stable. Keep container closed when not in use. Safety glasses are suggested when handling this product. No special gloves or protective equipment is required. Due to the products low pH, aluminum piping and fittings should not be used. Consult SlurryMonster representative for tank, piping, valve, hose coupling and fitting recommendations. After use, rinse empty container and discard as per federal, state and local regulations.

Toxicity Studies

Toxicity Limits: Test Procedure OECD 202, 48 hr. LC 50 and LD 50 (rat oral: Non-Toxic)

Mutagenicity Limits: OECD Guidelines Sec. 471 Chemicals: Non-Mutagenic

Dermal Irritation & Corrosion

A modified Draize method was used as described in OECD Guidelines for the testing of Chemicals Sec. 404 and complies with the requirements of OECD Principles of GLP, Annex revised as of July 1992.

VNYM is classified as a "Mild Skin Irritant."

Classification & Approvals

D.O.T – Non-Regulated

TDG – Non-Regulated to and through Canada SARA 313 311/312 – This product does not contain any ingredients that are subject to the reporting requirements.

California Prop 65 – This product does not contain any ingredients known to the state of California to cause cancer, birth defects or any other reproductive harm.

FDA – Approved as Safe (GRAS)

NSF 60

Clean Air Act

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

Additional Studies & Results: When tested, VNYM™ showed no potential for the generation of Carbon Dioxide under NIOSH 7903 OSHA & ACGIH testing protocols governing workplace environments.

Dilution Specification Please

Refer to Page 2.

USE ONLY AS DIRECTED





VNYM™

Publish Date: January 2020

VNYM™ Dilution and Use instructions

pH Adjustment:

For use to control and adjust the pH of a system it is recommended that your process control system feature pH probes upstream and downstream of the product injection point for best accuracy. It is suggested that a bench titration be performed to determine use level for your specific system as the effect on pH will be varied dependent upon water quality. In most cases less VNYM™ will be needed in comparison to mineral acids to perform the same adjustment. Maximum use Level is 80 mg/L.

Descaler:

OFF-LINE USE:

Product may be used at concentrations up to 100% depending on severity of fouling. Isolate equipment or pipe to be cleaned. Drain and fill with VNYM™ at desired concentration. It is recommended for effective cleaning to use at no less than 15% dilution strength. Allow product to work for at least 30 minutes or longer as necessary. Drain and flush pipes with fresh water checking pH to ensure it returns to normal before reestablishing connections. Recommended Dosage: 175-500 gallons VNYM™ per 1000 gallons water.

ON-LINE USE:

For on-line use for scale removal and control product must be dosed into system using an injection or metering pump. Effective product dosage is based on a variety of factors. For adequate scale removal and control in systems with normal or below normal water hardness recommended dosage is between 2-10 mg/L. In systems with high levels of mineral hardness dosages up to but not exceeding 80 mg/L may be used. It is best to start at a lower dosage and periodically inspect for scale buildup to determine if higher dosage levels are necessary.

Pipe cleaning aid:

Product may be used at concentrations up to 100% depending on severity of fouling. Close off or disconnect section of pipe to be cleaned. Drain and fill with VNYM™ at desired concentration. It is recommended for effective cleaning to use at no less than 15% dilution strength. Allow product to work for at least 30 minutes or longer as necessary. Drain and flush pipes with fresh water checking pH to ensure it returns to normal before reestablishing connections. Recommended Dosage: 175-500 gallons VNYM™ per 1000 gallons water.

Well drilling aid:

When used as a Well drilling aid VNYM™ will help to prolong the life of your equipment and enhance drilling efficiency by helping to soften hard minerals and formations. Simply replace a portion of the water used in your drilling fluid with the desired percentage of VNYM™. Do not alter your drilling procedure. When purging the well check pH to ensure it returns to normal levels. Recommended Dosage: 50-150 gallons VNYM™ per 1000 gallons water.

Well rehabilitation Aid:

Calculate the approximate volume of the system to be cleaned including the volume of the casing, screen, bore hole annulus, and all associated plumbing. Inject the calculated volume of fluid in to well at desired concentration after verifying that supply connections are shut off or otherwise disconnected. Allow product to work for enough time (at least 30 minutes). Following use purge the system until pH returns to normal levels or until at least twice the volume injected is removed. If necessary, sanitize the well following treatment. Maximum dosage 20 gallons VNYM™ per 1000 gallons water.

Corrosion & Scale Control:

For use to inhibit corrosion and control scale product must be dosed into system using an injection or metering pump. Effective product dosage is based on a variety of factors. For general corrosion and scale control in systems with normal or below normal water hardness recommended dosage is between 2-10 mg/L. In systems with high levels of mineral hardness dosages up to but not exceeding 80 mg/L may be used. It is best to start at a lower dosage and periodically inspect for scale buildup to determine if higher dosage levels are necessary.

877.4SLURRY | slurrymonster.com