



BIOTROL™

S A F E T Y D A T A S H E E T

SECTION I: Identification

Product Identifier:

Product Name: Purit Clean-It™
Part/Item Number: PC016

Recommended Use of the Substance or Mixture and Restrictions on Use:

Recommended Use: Ultrasonic Instrument Cleaner
Restrictions on Use: For professional use only

Details of the Supplier:

Distributed by: Biotrol
13705 Shoreline Court East
Earth City, MO 63045
1.800.325.1881

Emergency Phone Number:

Infotrac:
24-Hour Number- (U.S.) 1-800-535-5053
Outside U.S.- 352-323-3500

SECTION II: Hazard(s) Identification

Classification of the Substance or Mixture:

Health Hazard	Physical Hazard
Acute Toxicity - Inhalation (Dusts/Mists) Category 4	Not Applicable
Skin Irritation Category 2	Not Applicable
Serious Eye Damage/Eye Irritation Category 1	Not Applicable

Label Elements:

Hazard Symbol:



Signal Word: Danger

Hazard Statement(s):

Harmful if swallowed.
Short-term eye contact will cause eye irritation.

Long-term eye contact may cause irreversible damage.

Precautionary Statement(s):

Prevention – Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only in a well-ventilated area. Wear protective gloves. Do not breathe dust/fume/gas/mist/vapors/spray.

Response – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Control Center or doctor/physician. IF SWALLOWED: Immediately call a Poison Control Center or doctor/physician. Rinse mouth. Do not induce vomiting. IF EXPOSED: Call a Poison Control Center or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Control Center or doctor/physician. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF SKIN IRRITATION OR RASH OCCUR: Get medical advice/attention. Call a Poison Control Center or doctor/physician if you feel unwell.

Storage – Store in a closed container, in a cool, dry well-ventilated place away from incompatible materials. Keep out of the reach of children and pets.

Disposal – Dispose according to all local, state and federal regulations.

Other Hazards- Toxic to aquatic life.

SECTION III: Composition/Information on Ingredients

Mixture:

Component	CAS #	WT%
Morpholine	110-91-8	*
Polyethylene Glycol Nonylphenyl Ether	9016-45-9	*

*The exact percentage has been withheld as a trade secret.

SECTION IV: First-Aid Measures

Description of First Aid Measures:

Inhalation - Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a physician or Poison Control Center immediately.

Eye contact –. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call physician immediately.

Ingestion – Rinse mouth. Do not induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Call a physician or Poison Control Center immediately.

Skin contact – Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Call a physician if you feel unwell.

Most Important Symptoms and Effects, Acute and Delayed: Causes skin and eye irritation. Inhalation of fumes or mist can cause irritation to the upper respiratory tract. Ingestion may cause irritation of the mouth, throat or stomach.

Indication of Any Immediate Medical Attention and Special Treatment Needed: Note to physicians – Treat symptomatically.

SECTION V: Firefighting Measures

Extinguishing media: Use water, CO₂, dry chemical or foam for extinction.

Special Hazards Arising from the Substance or Mixture: Not determined

Advice for Fire-Fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION VI: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Personal Precautions - Use personal protective equipment as required. The wet, contaminated surface may be slippery.

For Emergency Responders - Restrict access to spill area. Ventilate the area.

Environmental Precautions - Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional ecological information.

Methods and Materials for Containment and Cleaning Up: Prevent further leakage or spillage if safe to do so. Absorb with inert material. Shovel or sweep spills. Flush remainder with plenty of water.

SECTION VII: Handling and Storage

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only in well-ventilated areas. Do not breathe dust/fumes/gas/mist/vapors/spray. Keep out of the reach of children and pets.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a closed container, in a cool, dry well-ventilated place away from incompatible materials. Keep out of the reach of children and pets. Strong inorganic acids. Bleaching agents. Nitro compounds. Oxidizers.

SECTION VIII: Exposure Controls/Personal Protection

Control Parameters:

Occupational Exposure Limits:		
Component	OSHA PEL	ACGIH TLV
Morpholine	TWA: 20 ppm TWA: 70mg/m ³ TWA: 20 ppm (Vacated) TWA: 70 mg/m ³ (Vacated) STEL: 30 ppm (Vacated) STEL: 105 mg/m ³ (Vacated)	TWA: 20 ppm

Exposure Controls:

Appropriate Engineering Controls - Apply technical measures to comply with the occupational exposure limits. Eyewash stations.

Individual Protection Measures (PPE) - Wear goggles and/or a face protection shield. Wear chemical resistant, impermeable gloves. Wear appropriate clothing to prevent repeated or prolonged skin contact. Under normal conditions a respirator is not normally required. A mask or respirator may be used if vapor concentration is high. Handle in accordance with good industrial hygiene and safety practices.

SECTION IX: Physical and Chemical Properties

Information on Physical and Chemical Properties:	
Appearance:	Green Clear Liquid
Odor:	Mint
Odor Threshold:	Not determined
pH:	8.5 - 9.5
Melting point/freezing point:	< 32°F / < 0°C
Initial boiling point and boiling range:	212°F / 100°C
Flash point:	Not determined

Evaporation rate (Butyl Acetate =1):	< 1
Flammability (solid, gas):	Not applicable - liquid
Upper/lower flammability or exposure limits:	Not determined
Vapor pressure:	Not determined
Vapor density (Air = 1):	> 1
Relative density:	Not determined
Solubilit(ies):	Completely soluble
Partition coefficient: n-octano/water	See section 12
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Specific gravity (Water = 1):	1.04 g/cc

SECTION X: Stability and Reactivity

Reactivity: Not reactive under normal conditions.

Chemical Stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: None under normal processing.

Conditions to avoid: None under normal processing.

Incompatible materials: Strong inorganic acids, bleaching agents, nitro compounds, and oxidizers.

Hazardous decomposition products: None known

SECTION XI: Toxicological Information

Potential Health Effects:

Inhalation - May cause irritation, coughing, nausea and headache.

Eye Contact – Short term contact will cause irritation. Prolonged contact may cause irreversible damage.

Skin Contact – Frequent or prolonged contact may cause irritation.

Ingestion - Do not taste or swallow.

Acute Toxicity Data:

Morpholine - LD50 (oral rat) 1050 mg/kg; LD50 (dermal rabbit) 310 mg/kg

Polyethylene Glycol Nonylphenyl Ether – LD50 (oral rat) 1310 mg/kg; LD50 (dermal rabbit) 2000 mg/kg

Carcinogenicity: IARC has determined that morpholine is not carcinogenic to humans (Group 3). OSHA and NTP do not list morpholine as a carcinogen. ACGIH lists morpholine as A4 – not classifiable as a human carcinogen.

SECTION XII: Ecological Information

Toxicity:

Morpholine – Known toxin to algae/aquatic plants, fish, crustacean, and microorganisms

Polyethylene Glycol Nonylphenyl Ether - Known toxin to algae/aquatic plants, fish, and crustacean

Persistence and Degradability: Not determined

Bio-accumulative potential: Not determined

Mobility in Soil:

Morpholine – Partition Coefficient: -2.55

Other Adverse Effects: Not determined

SECTION XIII: Disposal Considerations

Disposal of Wastes: Dispose according to all local, state and federal regulations.

Disposal of Packaging: Dispose according to all local, state and federal regulations.

SECTION XIV: Transport Information

Not regulated

SECTION XV: Regulatory Information

US State Regulations:

California Proposition 65 – This product does not contain any Proposition 65 chemicals.

US State Right-to-Know Regulations			
Chemical Name	New Jersey	Massachusetts	Pennsylvania
Morpholine	X	X	X
Polyethylene Glycol Nonylphenyl Ether	X	Not applicable	X

US Federal Regulations:

SARA 302 - This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 302.

SARA 311/312 – Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA 313 – This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

International Regulations: Not determined

SECTION XVI: Other Information

NFPA Rating:

Health Hazard 2

Flammability 1

Instability 0

Special Hazards Not determined

Supersedes: 20 February 2013

Date Revised: 6 January 2015

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Biotrol makes no recommendation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for particular purpose.

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