

Bio-Clean[™]**SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION**

Product Identification: Bio-Clean[™]
Ref No. 0602, 0602-380, etc.

Test kit contains Bio-Clean.

Company Identification: Stanbio Laboratory
1261 North Main Street
Boerne, TX 78006

Telephone Number: (830) 249-0772
Website: <http://www.stanbio.com>

SECTION 2 – HAZARDS IDENTIFICATION

Routes of Exposure: Only when used as directed.

Classification system: In compliance with OSHA's Hazard Communication Standard (29CFR 1910.1200), a chemical mixture is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1% or more of a carcinogen. The product contains hazardous material(s) in excess of these amounts; therefore, precautions adequate for the pure form of the material(s) are presented here.

National Fire Protection Association (NFPA) ratings (scale 0-4):

Health=0
Fire=0
Reactivity=0

Hazard Overview

Health: Minimal risk if used as directed.

Fire: Not considered a fire hazard.

Reactivity: Bio-Clean contains Polypropylene Glycol, Monoethanolamine (85% Active), and Non-ionic Surfactant. Minimal risk.

Special Hazards:

Polypropylene Glycol: With combustion, produces carbon monoxide and carbon dioxide. Other unidentified organic compounds may be formed.

Monoethanolamine (85% Active): On decomposition, may produce nitrogen oxides. Avoid strong acids and strong oxidizers. May react with various halogenated organic solvents, resulting in temperature and/or pressure increases.

Non-ionic Surfactant: On decomposition, acrid smoke and fumes are emitted.

Carcinogenicity information

OSHA (Occupational Safety and Health Administration): Monoethanolamine (85% Active) is listed as a hazardous chemical.

NTP (National Toxicology Program): None of the ingredients is listed.

IARC (International Agency for Research on Cancer): None of the ingredients is listed.

SECTION 3 – PRODUCT COMPOSITION

The test kit is composed of Bio-Clean.

Safety Data Sheet

Bio-Clean™

Bio-Clean/0601 (The reagent contains by percentage the following amounts of chemicals)

Chemical Name	CAS No.	Concentration
Polypropylene Glycol	25322-69-4	3.3 %
Monoethanolamine (85% Active)	141-43-5	15.6 %
Non-ionic Surfactant	68412-54-4	19.9 %

SECTION 4 – FIRST AID MEASURES

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash affected area thoroughly with soap and water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention immediately.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media:

Polypropylene Glycol: For small fires, use water spray, dry chemical, carbon dioxide or chemical foam. For large scale fires, alcohol resistant foams are preferred.

Monoethanolamine (85% Active): Water fog, alcohol foam, carbon dioxide or dry chemical.

Non-ionic Surfactant: Use media proper to surrounding fire.

General Information: Wear a self-contained breathing apparatus and protective clothing for fighting surrounding fire.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill Response: Ventilate area. Absorb with non-reactive absorbent. After absorption, scoop up into a container for proper disposal. Wash area clean after material is scooped up.

Waste Response: Dispose of in a manner consistent with federal, state and local regulation.

SECTION 7 – HANDLING AND STORAGE

Information for safe handling: Refer to the package insert or product label for additional information on storage conditions.

Information about protection against explosions and fires: No special measures required.

Requirements to be met by storerooms and receptacles: Refer to the package insert or product label for additional information on storage conditions.

Information about storage in one common storage facility: Store product in original packaging.

Further information about storage conditions: Protect from heat and direct sunlight.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: None required

VENTILATION: Good ventilation

GLOVES: Yes

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LAB COAT: Yes

EYE PROTECTION: Yes

LABORATORY PRECAUTIONS: Normal laboratory precautions are recommended.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Polypropylene Glycol

Boiling Point: Decomposes

Melting Point: NA

Specific Gravity: 1.01

Flash Point: 166 °C

Monoethanolamine (85% Active)

Boiling Point: 130 °C

Melting Point: NA

Specific Gravity: 1.00

Flash Point: 98 °C

Non-ionic Surfactant

Boiling Point: > 200 °C

Melting Point: NA

Specific Gravity: 1.06

Flash Point: 285 °C

SECTION 10 – STABILITY AND REACTIVITY

Bio-Clean contains Polypropylene Glycol, Monoethanolamine (85% Active), and Non-ionic Surfactant.

STABILITY: Stable

INCOMPATIBILITY: None

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11 – TOXICOLOGICAL INFORMATION

Polypropylene Glycol

THRESHOLD LIMIT: Not established

LD50 (oral rat): 1500 mg/kg

CARCINOGEN: No

Monoethanolamine (85% Active)

THRESHOLD LIMIT: Not established

LD50 (oral rat): 1090 mg/kg

CARCINOGEN: No

Non-ionic Surfactant

THRESHOLD LIMIT: Not established

LD50 (oral rat): 3000 mg/kg

CARCINOGEN: No

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity: Further details: no data available

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Persistence and degradability: Further details: no data available

Bioaccumulative potential: Partition coefficient: n-octanol/water: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment: no data available

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 – TRANSPORT INFORMATION

Polypropylene Glycol

DOT Class - Not regulated.

IMDG Class - Not regulated.

ICAO/IATA Class - Not regulated

Monoethanolamine (85% Active)

UN No.: UN2491

Proper Shipping Name: Ethanolamine Solution

Hazard Group: 8

Packing Group: III

Non-ionic Surfactant

DOT /TDG/IMO/IATA

UN No.: UN3082

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.

Hazard Group: 9

Packing group: III

SECTION 15 – REGULATORY INFORMATION

Polypropylene Glycol

SARA (Superfund Amendments and Reauthorization Act of 1986 – USA):

Section 302/304 (40CFR355.40): The product does not contain listed substances.

Section 313 (40CFR372.65): The product does not contain listed substances.

California Proposition 65 (USA)

Chemicals known to cause cancer: The product does not contain listed substances.

Chemicals known to cause female reproductive toxicity: None of the ingredients is listed.

Chemicals known to cause male reproductive toxicity: None of the ingredients is listed.

Chemicals known to cause developmental reproductive toxicity: None of the ingredients is listed.

Markings according to European guidelines: observe the general safety regulations when handling chemicals. The product does not require any hazard warnings according the respective European Community (EC) Directives.

Monoethanolamine (85% Active)

This product is a Hazardous Chemical as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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SARA (Superfund Amendments and Reauthorization Act of 1986 Title III) Section 313

To the best of our knowledge this product does not contain chemicals at levels which require reporting under this statute.

SARA (Superfund Amendments and Reauthorization Act of 1986 Title III) Section 311/312

Delayed Health Hazard: Yes
 Fire Hazard: No
 Immediate Health Hazard: Yes
 Reactive Hazard: No
 Sudden Release of Pressure Hazard: No

TSCA

All components in this product are in compliance with the New Substances Notifications regulations.

CEPA – Domestic Substances List (DSL)

All substances contained in this procedure are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

Non-ionic Surfactant

SARA (Superfund Amendments and Reauthorization Act of 1986 Title III) Section 311/312

Delayed Health Hazard: No
 Fire Hazard: No
 Immediate Health Hazard: Yes
 Reactive Hazard: No
 Sudden Release of Pressure Hazard: No

California Proposition 65 (USA)

Ingredient Name	Cancer List	Reprod. List	No Sign California
Dioxane	Y	N	30
Ethylene Oxide	Y	Y	2

Inventory status

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
Europe (EINECS/ELINCS):	On or in compliance with the inventory
Japan (MITI) List:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory

SECTION 16 – OTHER INFORMATION

The information contained in this SDS is believed to be accurate and represents the best information currently available. Stanbio Laboratory makes no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should determine suitability of the information contained in SDS for their particular purpose.

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In no way shall Stanbio Laboratory be liable for any claims, losses or damages resulting from using information contained in SDS.