

## 1. Product and Company Identification

<b>Product(s)</b>	Tubing Cleaning 2 (ORI6038)
<b>Related Product Kit</b>	Tubing Cleaning Kit (ORI6036K)
<b>Intended Use &amp; Restrictions</b>	Immunohistochemistry reagent intended for use by professional laboratory personnel that have been properly trained in its use.
<b>Company Information</b>	Biocare Medical, LLC 60 Berry Drive Pacheco, CA 94553 United States Tel: +1 800-799-9499 (7AM-5PM, PST, Mon-Fri) Fax: +1 925-603-8080 Web: www.biocare.net
<b>24-Hour Emergency Contact</b>	CHEMTREC +1 800-424-9300 (USA and Canada only) +1 703-527-3887 (all other countries)

## 2. Hazards Identification

**Emergency Overview** Flammable liquid.  
Keep away from flames, heat, and hot surfaces.

May cause skin or eye irritation.  
Avoid contact with skin or eyes.

**OSHA Hazards** Combustible Liquid, Skin sensitizer, Irritant

**GHS Classification**  
**Signal words, Symbol,**  
**Hazard &**  
**Precautionary**  
**Statements**



Warning

Hazard statement(s)

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face

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protection.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
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 supplemental first aid instructions on this label).  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P391 Collect spillage.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/ container to an approved waste disposal plant.

## Potential Health Effects

- Skin Contact** May be harmful if exposed to skin. May cause skin irritation, itching, redness or inflammation.
- Eye Contact** May be harmful if exposed to eyes. May cause eye irritation, watering eyes, stinging or burning sensation.
- Inhalation** May be harmful if inhaled. May cause respiratory tract irritation, headache, dizziness, nausea or coughing.
- Ingestion** May be harmful if swallowed. May cause irritation of gastrointestinal tract, nausea, or vomiting.
- See Section 11: Toxicological Information for additional information.

**Environmental Effects** Toxic to aquatic life.  
See Section 12: Ecological Information for additional information.

## 3. Composition / Information on Ingredients

Chemical Name	Synonyms	% Composition	CAS Number
d-Limonene	(+)-Carvone (R)-4-Isopropenyl-1-methyl-1-cyclohexene	95-100%	5989-27-5

Note: It has been determined that the remaining ingredients of this product are not classified as hazardous according to the Federal OSHA Hazardous Communication Standard (29 CFR 1910.1200) or the Globally Harmonized System of Classification and Labeling of Chemicals.

## 4. First Aid Measures

**General Advice** Avoid further exposure to product. Consult a physician.

**In case of skin contact** Wash exposed area with soap and plenty of water. Remove any contaminated clothing. Seek medical attention.

**In case of eye contact** Wash eyes with plenty of water for at least 15 minutes. Have victim remove contact lenses. Be sure to wash under eyelids. Seek medical attention.

**If inhaled** Remove victim to well-ventilated area. If victim is not breathing, give artificial respiration. Seek medical attention.

**If swallowed** If victim is conscious, rinse mouth with water. Do not give anything to an unconscious

victim. Seek medical attention.

## 5. Fire Fighting Measures

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- Suitable Extinguishing Media** Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Use extinguisher media appropriate for surrounding fire.
- Special Protective Equipment for Firefighters** Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.
- Special Exposure Hazards** Avoid inhalation of fumes, which may be toxic or irritating.

## 6. Accidental Release Measures

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- Personal Precautions** Use of personal protective equipment is recommended as described in Section 8. Isolate hazard area and deny entry to unprotected personnel.
- Environmental Precautions** Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways.
- Methods for containment and clean up** Small spills may be contained and cleaned-up with paper towels or absorbent pads. Absorb large spills with sand or vermiculite and place in a closed container for waste disposal. Avoid physical contact during removal.

## 7. Handling and Storage

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- Precautions for Safe Handling** Avoid contact with eyes, skin and clothing. Avoid inhalation of vapor. Keep away from heat and ignition sources. No smoking. Wash hands thoroughly after use.
- Conditions for Safe Storage** Keep container tightly closed. Keep container in a cool, well-ventilated area.

## 8. Exposure Controls / Personal Protection

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- Permissible Exposure Limits** No data available
- Engineering Controls** No special controls needed.
- Personal Protective Equipment**
- Eye Protection** Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.
- Skin Protection** Use chemically resistant gloves and a lab coat with sleeves.
- Respiratory Protection** Exceeding exposure limits is unlikely during normal usage. However, if irritating vapors are produced, respiratory protection is recommended. Attempt to reduce exposure levels to an acceptable range.
- General Hygiene Measures** Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling and before eating or drinking.

## 9. Physical and Chemical Properties

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- Appearance** Clear, colorless liquid
- Odor** Citrus odor

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<b>pH (as supplied)</b>	Not determined
<b>Melting point</b>	Not determined
<b>Boiling point</b>	Not determined
<b>Flash point</b>	Not determined
<b>Flammability</b>	Not determined
<b>Lower explosion limit</b>	Not determined
<b>Upper explosion limit</b>	Not determined
<b>Vapor pressure</b>	Not determined
<b>Vapor density</b>	Not determined
<b>Specific gravity</b>	Not determined
<b>Solubility (in water)</b>	Soluble
<b>Partition coefficient (n-octanol/water)</b>	Not determined
<b>Auto-ignition temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined

## 10. Stability and Reactivity

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<b>Chemical Stability</b>	Stable under recommended storage conditions (see Section 7).
<b>Conditions to avoid</b>	Avoid exposure to heat, flames, or ignition sources.
<b>Materials to avoid</b>	Alkaline or oxidizing agents
<b>Hazardous decomposition products</b>	No data available
<b>Possibility of hazardous reactions</b>	None identified.

## 11. Toxicological Information

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<b>Acute dose effects</b>	LD50 (Limonene) Oral - rat - 4,400 mg/kg LD50 (Limonene) Dermal - rabbit - > 5,000 mg/kg
<b>Repeat dose effects</b>	No data available
<b>Skin irritation</b>	No data available
<b>Skin and respiratory sensitization</b>	May cause sensitisation by skin contact.
<b>Eye irritation</b>	No data available
<b>Carcinogenicity</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, potential, known, anticipated, or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Mutagenicity</b>	No data available
<b>Reproductive effects</b>	No data available
<b>Developmental effects</b>	No data available
<b>Target organ effects</b>	No data available

*To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly*

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*investigated at product concentrations.*

## 12. Ecological Information

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<b>Ecotoxicity</b>	Toxicity to fish: LC50 - Pimephales promelas (fathead minnow) - 0.702 mg/l - 96.0 h Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia pulex (Water flea) - 69.6 mg/l - 48 h
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation/accumulation</b>	No data available
<b>Mobility in environmental media</b>	No data available
<b>Other hazardous effects</b>	No data available

## 13. Disposal Considerations

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<b>Product</b>	Disposal should be in accordance with applicable national, state, and local laws and regulations. Local regulations may be more stringent than national or state requirements. Verify local and state regulations before discharging into public sewers or landfills. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.
<b>Contaminated packaging</b>	Dispose of as unused product.

## 14. Transportation Information

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<b>Proper shipping name</b>	Dipentene
<b>Technical name</b>	(R)-4-Isopropenyl-1-methyl-1-cyclohexene
<b>Hazard class</b>	3
<b>Identification number</b>	UN 2052
<b>Packing group</b>	III
<b>DOT (US)</b>	Marine pollutant: No Poison Inhalation Hazard: No
<b>IMDG</b>	Marine pollutant: Marine pollutant
<b>IATA</b>	No further information
<b>TDG</b>	No further information

## 15. Regulatory Information

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### Inventory Status

<b>United States (TSCA)</b>	All ingredients are on the inventory or exempt from listing.
<b>Canada (DSL / NDSL)</b>	All ingredients are on the inventory or exempt from listing.
<b>SARA 302 Components</b>	No chemicals in this product are subject to reporting requirements.
<b>SARA 313 Components</b>	No chemicals in this product are subject to reporting requirements.
<b>SARA 311/312 Hazards</b>	Fire Hazard, Acute Health Hazard, Chronic Health Hazard

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**California Prop. 65 components** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

### 16. Other Information

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**Sources and Suitability** The above information was obtained from sources available at the time of revision and believed to be accurate and reliable. The information included is not intended to be all inclusive and should only be used as a guide. Biocare shall not be held liable for any damage resulting from use, handling, or contact with the above product.

**Revision Date** January 22, 2018  
(All SDS's before this date should be discarded.)

**Replaces Revision** June 16, 2015. This SDS has been updated to reflect current hazard information and product information and product formulations.  
**Note: Before using this product, please visit the Biocare Medical website at <http://biocare.net> for the current version of this SDS**