



# SAFETY DATA SHEET

REVISION DATE: 15 August 2017

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## Section 1 – PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** INTROL™ 2C19 Panel P105  
**SYNONYMS:** N/A  
**PRODUCT CODES:** P105-1

| <u>P105-1 Components:</u> (1 bottle of each) | <u>P/N</u> | <u>Description</u> |
|--|------------|--------------------|
| INTROL™ 2C19 Control P106                    | P10601     | 1mL                |
| INTROL™ 2C19 Control P107                    | P10701     | 1mL                |
| INTROL™ 2C19 Control P108                    | P10801     | 1mL                |

**USE OF THE SUBSTANCE PREPARATION:** The INTROL™ 2C19 Panel P105 is intended for *in vitro* use as a quality control to monitor analytical performance of the extraction, amplification and detection steps of test systems used in the qualitative measurement of the 10 most common mutations of Cytochrome P450 2C19 (CYP2C19) affecting drug metabolism.

### DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET AND MANUFACTURER NAME AND ADDRESS:

|   |  |  |
|---|--|--|
| <b>Maine Molecular Quality Controls, Inc (MMQCI)</b><br>23 Mill Brook Rd<br>Saco, Maine 04072 (USA)<br>E-mail: <a href="mailto:info@mmqci.com">info@mmqci.com</a><br><a href="http://www.mmqci.com">www.mmqci.com</a><br>Emergency telephone number: 207-885-1072 | <b>Manufacturer Phone Number</b><br>207-885-1072 | <b>Manufacturer Fax Number</b><br>207-885-1079 |
|---|--|--|

## Section 2 – HAZARD(S) IDENTIFICATION

### HAZARDOUS INGREDIENTS:

23% Ethyl Alcohol

Classification: Void

This product is not considered to be flammable under ordinary laboratory conditions based on studies performed by MMQCI.

## Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

### Chemical Characterization (Hazardous Chemical Ingredients):

| Chemical Name | EC-No.    | Index-No     | CAS-No. | %  | Classification | Labeling  |
|---------------|-----------|--------------|---------|----|----------------|-----------|
|               |           |              |         |    | Symbol         | R-Phrases |
| Ethyl Alcohol | 200-578-6 | 603-002-00-5 | 64-17-5 | 23 | None           | None      |

Dangerous Components According to EC Criteria: None

## Section 4 – FIRST AID MEASURES

**General:** No emergency care is anticipated.

### In all cases of doubt or when symptoms occur, do the following:

**Inhalation:** Remove affected person to fresh air. Seek medical attention if breathing becomes difficult or if cough or other symptoms develop.

**Ingestion:** Rinse mouth with water. Seek medical attention if signs of toxicity occur.

**Skin:** Remove contaminated clothing. Wash affected area with plenty of soap and water. Seek medical attention if irritation develops.

**Eyes:** Rinse immediately with plenty of water. Remove contact lenses if worn. Seek medical attention if redness or irritation develops.



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## Section 5 – FIRE FIGHTING MEASURES

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**Flash Point (Method Used):** 32°C (90°F) (ethanol vapor), Closed Cup  
**Flammable Limits:** N/A  
**Extinguishing Media:** CO<sub>2</sub> or Dry Chemical / ABC Fire Extinguisher or water  
**Auto-ignition Temperature:** 363°C (ethanol vapor)  
**Special Fire Hazards:** N/A  
**Explosion Hazards:** N/A

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## Section 6 – ACCIDENTAL RELEASE MEASURES

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**Personal Precautions:** Wear appropriate protective clothing.  
**Steps to be Taken in Case Material is Released or Spilled:** Wipe up with appropriate absorbent material.  
**Waste Disposal Method:** Normal disposal container

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## Section 7 – HANDLING AND STORAGE

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**Handling:** Handle per package insert instructions.  
**Storage:** Store at 2°- 8°C. Do not freeze.

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## Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Exposure Limit Values:** None  
**Exposure Controls:** This product is not expected to require special ventilation controls. Facilities storing or using this product should be equipped with an eyewash station.

### PERSONAL PROTECTIVE EQUIPMENT:

|                                |                  |                                    |                                 |
|--------------------------------|------------------|------------------------------------|---------------------------------|
| <b>Respiratory Protection:</b> | None required    | <b>Eye Protection:</b>             | Safety glasses                  |
| <b>Skin Protection:</b>        | Lab coat, gloves | <b>Work / Hygiene Practices:</b>   | Standard laboratory precautions |
| <b>Ventilation:</b>            | Normal           | <b>Other Protective Equipment:</b> | None required                   |

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## Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

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|                                 |                   |   |        |
|---------------------------------|-------------------|---|--------|
| <b>Component:</b>               | Ethanol (23%)     | <b>Specific Gravity (H<sub>2</sub>O = 1):</b> | N/A    |
| <b>Boiling Point:</b>           | 86°C (186.8°F)    | <b>Evaporation Rate (Butyl Acetate = 1):</b>  | N/A    |
| <b>Melting Point:</b>           | N/A               | <b>Solubility in Water:</b>                   | Yes    |
| <b>Vapor Density (AIR = 1):</b> | N/A               | <b>pH:</b>                                    | N/A    |
| <b>Vapor Pressure (mmHg):</b>   | N/A               | <b>Odor:</b>                                  | Fruity |
| <b>Appearance:</b>              | Liquid, colorless |   |        |

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## Section 10 – STABILITY AND REACTIVITY

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**Stability:** Stable  
**Incompatibility (Materials to avoid):** None known  
**Hazardous Decomposition or Byproducts:** None known  
**Conditions to Avoid:** Avoid high heat with flames and other sources of ignition.  
**Hazardous Polymerization:** Will not occur



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## Section 11 – TOXICOLOGICAL INFORMATION

**Routes of Entry:** N/A  
**Health Hazards (Acute and Chronic):** None known  
**Carcinogenicity:** No  
**IARC Monographs:** N/A  
**Signs and Symptoms of Exposure:** None known  
**Medical Conditions generally aggravated by Exposure:** None known  
**NTP:** N/A  
**OSHA Regulated:** No

## Section 12 – ECOLOGICAL INFORMATION

**Ecotoxicity:** Regarded as having low toxicity to aquatic organisms.  
**Mobility:** Water soluble, will partition to aqueous phase. Lost within short period through evaporation and dissolution. Poorly absorbed into soils and sediments.  
**Bioaccumulation:** Low bioaccumulation potential.  
**Degradability:** Readily biodegradable.

## Section 13 – DISPOSAL CONSIDERATIONS

**Appropriate Disposal / Product:** Dispose of unused product, spilled substance and waste in normal disposal container.

## Section 14 – TRANSPORT INFORMATION

**Land Transport:** Not restricted. Not regulated as hazardous goods.  
**Sea Transport:** Not restricted. Not regulated as hazardous goods.  
**Air Transport:** Not restricted. Not regulated as hazardous goods.

## Section 15 – REGULATORY INFORMATION

| Chemical Name | EC-No.    | Index-No     | CAS-No. | %  | Classification | Labeling  |
|---------------|-----------|--------------|---------|----|----------------|-----------|
|               |           |              |         |    | Symbol         | R-Phrases |
| Ethyl Alcohol | 200-578-6 | 603-002-00-5 | 64-17-5 | 23 | None           | None      |

**California Proposition 65:** This product does not contain any substances listed on California's listing of known or potential carcinogens.  
**Chemical Safety Assessment:** Observe general laboratory safety regulations when handling chemicals.

## Section 16 – OTHER INFORMATION

SDS Prepared by: MMQCI  
Preparation Date: 15 August 2017

Disclaimer: The information contained in this SDS is provided only for use as a guide. The SDS was carefully prepared based on references and tests believed to be reliable; however, MMQCI makes no guarantee of the accuracy and completeness of the data. Any use of the data must be in accordance with applicable federal, state and local regulations.