

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

A. PRODUCT IDENTIFIERS

PRODUCT NAME: **Twist Respiratory Virus Controls**
PRODUCT NUMBER: **103730, 103032**
SYNONYMS: **N/A**

B. DETAILS OF SUPPLIER OF THE SAFETY DATA SHEET

COMPANY: **Twist Bioscience**
681 Gateway Boulevard
South San Francisco, CA 94080
TELEPHONE: **(415) 216-8966**
EMERGENCY PHONE #: **In the event of chemical emergencies: Contact CHEMTREC 24 Hour Emergency Telephone:**
In US: 1-800-424-9300;
International number (Outside the US): +1-703-741-5970

C. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE: **For research and development purposes only.**

SECTION 2: HAZARD IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazard Statements

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

No components in this product, at the given concentration, are considered to be hazardous. Despite the classification of certain products/components as non-hazardous, we strongly recommend using prudent laboratory practices: avoiding unnecessary contact and use of personal protective equipment, which may include gloves, eye protection, and lab coats, during the use of any laboratory reagent. Twist Bioscience shall not be held liable for any damages resulting from handling or from contact with the above product.

Supplier Information:

Twist Bioscience
681 Gateway Boulevard, South San Francisco, CA 94080
Email: customersupport@twistbioscience.com
Phone: 1-415-216-8966

Other Information:

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance

N/A

Mixture

Product Number	Product Name	Classification
103730 ¹ /103032	Twist Respiratory Virus Controls	
103001	Twist Synthetic Influenza H1N1 (2009) RNA control	Not Classified
103002	Twist Synthetic Influenza H3N2 RNA control	Not Classified
103003	Twist Synthetic Influenza B RNA control	Not Classified
103004	Twist Synthetic Human bocavirus 1 DNA control	Not Classified
103005	Twist Synthetic Human enterovirus 68 RNA control	Not Classified
103006	Twist Synthetic Human rhinovirus 89 RNA control	Not Classified
103007	Twist Synthetic Mumps virus RNA control	Not Classified
103008	Twist Synthetic Human parainfluenza virus 1 RNA control	Not Classified
103009	Twist Synthetic Measles virus RNA control	Not Classified
103010	Twist Synthetic Human parainfluenza virus 4 RNA control	Not Classified
103011	Twist Synthetic Human coronavirus 229E RNA control	Not Classified
103012	Twist Synthetic Human coronavirus NL63 RNA control	Not Classified
103013	Twist Synthetic Human coronavirus OC43 RNA control	Not Classified
103014 ¹	Twist Synthetic SARS coronavirus Tor2 RNA control	Not Classified
103015 ¹	Twist Synthetic MERS coronavirus 2c EMC/2012 RNA control	Not Classified

¹ Kit 103730 does not contain items 103014 and 103015

SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical attention.
EYE CONTACT:	Wash eyes with large amounts of water or normal saline for a minimal time of 15 minutes. If irritation isn't available, seek medical attention.
INGESTION:	Get medical attention.
INHALATION:	Remove from exposure area to fresh air immediately. Get medical attention immediately.
INJECTION:	If accidentally injected, get medical attention.
NOTE TO PHYSICIAN:	There is no specific antidote. Treat symptomatically and supportively as needed.

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SECTION 5: FIRE FIGHTING MEASURES

Fire and Explosion Hazard: None known to exist.

Fire Extinguishing Media: Dry chemical, foam, carbon dioxide or water. Warning: Take precaution not to aerosolize the powder, where it could become an inhalation risk.

SECTION 6: ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL SPILL: Wear appropriate protective clothing, safety glasses and chemically compatible gloves. Place contaminated material spillage in appropriate container for waste disposal according to site regulation. Wash contaminated clothing before reuse.

REPORTABLE QUANTITY (RQ): N/A

SECTION 7: HANDLING AND STORING

Observe all federal, state and local regulations. Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling. Keep tightly closed. Store at -80 °C. Use good laboratory practices for handling and storage of chemical substances of unknown toxicity.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

EXPOSURE CONTROLS: Use good laboratory practices for handling chemical substances of unknown toxicity. Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance.

EYE PROTECTION: Wear safety goggles to prevent eye contact with this substance.

CLOTHING: Wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.

GLOVES: Wear appropriate protective gloves to prevent contact with this material.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Product Number	Product Name	Classification	Physical State	Appearance	Odor	Odor Threshold	pH
103730/103032	Twist Respiratory Virus Controls						
103001	Twist Synthetic Influenza H1N1 (2009) RNA control	Liquid	Clear	None	N/A	N/A	N/A
103002	Twist Synthetic Influenza H3N2 RNA control	Liquid	Clear	None	N/A	N/A	N/A
103003	Twist Synthetic Influenza B RNA control	Liquid	Clear	None	N/A	N/A	N/A
103004	Twist Synthetic Human bocavirus 1 DNA control	Liquid	Clear	None	N/A	N/A	N/A
103005	Twist Synthetic Human enterovirus 68 RNA control	Liquid	Clear	None	N/A	N/A	N/A
103006	Twist Synthetic Human rhinovirus 89 RNA control	Liquid	Clear	None	N/A	N/A	N/A
103007	Twist Synthetic Mumps virus RNA control	Liquid	Clear	None	N/A	N/A	N/A
103008	Twist Synthetic Human parainfluenza virus 1 RNA control	Liquid	Clear	None	N/A	N/A	N/A
103009	Twist Synthetic Measles virus RNA control	Liquid	Clear	None	N/A	N/A	N/A
103010	Twist Synthetic Human parainfluenza virus 4 RNA control	Liquid	Clear	None	N/A	N/A	N/A
103011	Twist Synthetic Human coronavirus 229E RNA control	Liquid	Clear	None	N/A	N/A	N/A
103012	Twist Synthetic Human coronavirus NL63 RNA control	Liquid	Clear	None	N/A	N/A	N/A
103013	Twist Synthetic Human coronavirus OC43 RNA control	Liquid	Clear	None	N/A	N/A	N/A
103014	Twist Synthetic SARS coronavirus Tor2 RNA control	Liquid	Clear	None	N/A	N/A	N/A
103015	Twist Synthetic MERS coronavirus 2c EMC/2012 RNA control	Liquid	Clear	None	N/A	N/A	N/A

***No data available for:**

Melting point / freezing point	Upper flammability or explosive limits
Boiling point / boiling range	Lower flammability or explosive limits
Flash point	Vapor pressure
Evaporation rate	Partition coefficient

Flammability (solid, gas)
Flammability Limit in Air
Vapor density
Relative density

Water solubility
Autoignition temperature
Decomposition temperature

Dynamic viscosity
Kinematic viscosity

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SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under typical conditions of use and storage.
REACTIVITY: N/A

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICITY: N/A

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/A

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

Ship as non-regulated material, no transportation restrictions apply.

SECTION 15: REGULATORY INFORMATION

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-To-Know

This product does not contain any substances regulated by state right-to-know regulations

SECTION 16: OTHER INFORMATION

POTENTIAL HEALTH EFFECTS:

SKIN CONTACT:	Short Term Exposure: Possible Irritant Long Term Exposure: No information available
EYE CONTACT:	Short Term Exposure: Possible Irritant Long Term Exposure: No information available
INGESTION:	Short Term Exposure: Possible Irritant Long Term Exposure: No information available
INHALATION:	Short Term Exposure: Possible Irritant Long Term Exposure: No information available
INJECTION:	Short Term Exposure: No information available Long Term Exposure: No information available

THE AFOREMENTIONED INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. TWIST BIOSCIENCE SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

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