



Material Safety Data Sheet
Part # 900547
MSDS #: 701778

Important Safety Information – Do Not Discard
Please route to your Company Safety Director

Identification of Product:

GeneChip® IVT cRNA Cleanup Kit

Contact Information:

Manufacturer: QIAGEN GmbH, Max-Volmer-Str. 4, 40724 Hilden, Germany Tel: +49 2103 29-0
Distributor: Affymetrix, Inc. 3380 Central Expressway, Santa Clara, CA 95051 Tel: +1 408 731 5000
Emergency contact: CHEMTREC: 800 424 9300 in USA

This Hazard Communication Packet has been put together to inform you of the potential hazards associated with the components used in this reagent kit. Refer to the Material Safety Data Sheet(s) for the listed items

Composition:

IVT cRNA Binding Buffer
IVT cRNA Wash Buffer

Other Information:

For each kit, a MSDS sheet will be sent only on the first shipment, unless a substantial revision occurs. While the information provided in the MSDS is believed to be correct, this information is provided by Affymetrix without any warranty, express or implied, regarding its corrective uses. To the best of our knowledge the information provided is correct. However, the information should only be used as a guide and the final determination is the sole responsibility of the user as all materials may contain unknown hazards and should be used with caution. Affymetrix, Inc. shall not be held liable for any damages or losses resulting from use of the product(s).

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Identification of Product:

IVT cRNA Binding Buffer

Contact Information:

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Composition / Information:

The follow list shows component(s) of this product classified as hazardous based on physical properties and/or health effects.

Ingredient Name	CAS #	Percent(%)
Guanidinium thiocyanate	593-84-0	25-50%

Hazards Identification:

Physical State: Liquid

Effects and Symptoms:

Inhalation: May cause irritation

Skin Contact: May cause irritation such as redness, itching and pain.

Eye Contact: May cause irritation, redness and pain

Ingestion: Harmful if swallowed

Chronic Exposure: Prolonged or repeated skin exposure may cause dermatitis. Repeated ingestion of small amounts may cause weakness, confusion, central nervous system effects, nausea and skin eruptions.

Aggravating Conditions: No information found

Carcinogenicity: Not listed by NTP, IARC or regulated by OSHA as carcinogens.

First Aid Measures:

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult physician.

Eye or Skin Contact: Flush eyes or wash contaminated area with water for 15 minutes. Seek medical consultation if irritation persists.

Ingestion: Rinse out mouth immediately. Consult physician.

Fire Fighting Measures:

Extinguishing media: Water, Carbon dioxide, dry chemical or appropriate foam

Special Fire procedure: Wear appropriate fire protection gear for surrounding fire.

Unusual fire / exp. hazards: N/A



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Accidental release measures:

If released or spilled: Absorb on inert material, collect for appropriate disposal. Do not flush to sewer.
Absorbent material: No restrictions

Handling and Storage:

Handling: Special handling procedures are not needed. Keep in closed container. Do not store with acids. Ensure adequate ventilation.
Storage: Store at room temperature

Exposure Controls / Personal Protection:

Protective equipment: Use general laboratory protective equipment, lab safe gloves, general eye protection safety glasses or goggles
Hygiene: General lab practices. Keep away from food and beverages.
Ventilation: Local exhaust

Physical and Chemical Properties:

Appearance and Odor: colorless liquid with characteristic odor
Boiling Point: Not determined for mixture
Flash Point: N/A
Specific Gravity: Not determined for mixture
Vapor Density: Not determined for mixture
pH: 7.0
Solubility in Water: Soluble

Stability and Reactivity:

Stability: Stable under normal conditions and use
Incompatibility: Reacts with acids, alkalis and oxidizing agents.
Hazardous Decomp.: Danger of toxic pyrolysis products
Hazardous Polymerization: Not expected to occur

Toxicological Information:

NOTE: Toxicological information is reported for the individual components. The toxicity of the mixture has not been thoroughly investigated.

Ingredient	OSHA PEL	ACGIH - TLV	Lethal Dose (LD, LC, etc.)
Guanidinium thiocyanate	None established	None established	None established

Ecological Information:

Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water

Disposal Considerations:

Do not dispose to sanitary sewer. Observe all Federal, State and local regulations.

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Transport Information:

This product is not subject to current regulations for transportation of hazardous goods (US DOT)

UN No.: N/A

Regulatory:

TSCA: All ingredients are listed.
SARA: None of the ingredients are listed
CERCLA: None of the ingredients are listed
Section 302: N/A
Section 304: N/A
Section 313: None of the ingredients are listed
California Prop 65: Not listed

Product related hazard information:

The product has been classified and marked in accordance with directives on hazardous materials.

Hazard symbols: Harmful

Hazard-determining components of labeling: guanidinium thiocyanate

Risk phases: Harmful by inhalation, in contact with skin and if swallowed.



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Emergency contact: CHEMTREC: 800 424 9300 in USA

Composition / Information:

<u>Ingredient Name</u>	<u>CAS #</u>	<u>Percent(%)</u>
Proprietary Compound Mixture	N/A	

According to the manufacturer, this product does not contain any hazardous ingredients as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Hazards Identification:

Physical State: Liquid

Effects and Symptoms:

Inhalation: May cause irritation

Skin Contact: May cause irritation

Eye Contact: May cause irritation

Chronic Exposure: None known. Not thoroughly investigated

Aggravating Conditions: None known

Carcinogenicity: Not listed by NTP, IARC or regulated by OSHA as carcinogens.

First Aid Measures:

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult physician.

Eye or Skin Contact: Flush eyes or wash contaminated area with water for 15 minutes. Seek medical consultation if irritation persists.

Ingestion: Rinse out mouth immediately. Do not induce vomiting. Consult physician.

Fire Fighting Measures:

Extinguishing media: Water, Carbon dioxide, dry chemical or appropriate foam for surrounding area

Special Fire procedure: Wear appropriate fire protection gear for surrounding fire.

Unusual fire / exp. hazards: N/A

Accidental release measures:

If released or spilled: Absorb on inert material, collect for appropriate disposal. Do not flush to sewer.

Absorbent material: No restrictions

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Handling and Storage:

Handling: Special handling procedures are not needed
Storage: Store at room temperature
There are no restrictions concerning storage with other products.

Exposure Controls / Personal Protection:

Protective equipment: Use general laboratory protective equipment, lab safe gloves, general eye protection safety glasses or goggles
Hygiene: General lab practices. Keep away from food and beverages.
Ventilation: Local exhaust
Precautionary Labeling: None required

Physical and Chemical Properties:

Appearance: Colorless liquid
Boiling Point: Not determined for mixture
Flash Point: Not determined for mixture
Specific Gravity: Not determined for mixture
Vapor Density: Not determined for mixture
pH: 7.5
Solubility in Water: Soluble

Stability and Reactivity:

Stability: Stable
Incompatibility: None known
Hazardous Decomp.: Danger of toxic pyrolysis products
Hazardous Polymerization: Not expected to occur

Toxicological Information:

Not applicable

Ecological Information:

Do not dispose to water way.

Disposal Considerations:

Observe all Federal, State and local regulations.

Transport Information:

This product is not subject to current regulations for transportation of hazardous goods (US DOT)

UN No.: N/A

Regulatory:

TSCA: This product is solely for use for research and development purposes in accordance with 40 CFR 720.36 and may not be used, process or distributed for a commercial purpose. It may only be handled by technically qualified individuals.

SARA: N/A

CERCLA:



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Section 302: N/A
Section 304: N/A
Section 313: N/A
California Prop 65: Not listed

Other Information:

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