



Material Safety Data Sheet  
MSDS #: 702746

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

**Identification of Product:**

Affymetrix GeneChip® DMET Plus Pre-Amp Kit

**Contact Information:**

Manufacturer: Affymetrix, Inc. 7300 Shoreline Court, South San Francisco, CA 94080  
Tel: +1 650 228 7413

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:**

<u>Vial Name</u>	<u>Pages</u>
Enzyme A	2
Buffer A	2
Pre-Amp Water	3-5
GapFill Mix 1	3-5
GapFill Mix 2	2
ExoMix	3-5
Universal Amp Mix	2
Cleavage Enzyme	3-5
dNTP Mix	2

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, Inc. 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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The following components of this kit consist of either aqueous solutions containing buffers, salt solutions or enzymes, none of which are at a concentration that would render the reagents hazardous under the US Hazard Communication Standard, 20 CFR 1910.1200. The chemical, physical and toxicological properties of these products may have as yet, been thoroughly investigated. General laboratory safety equipment (eye protection, lab coat and lab gloves) and good personal hygiene are recommended when working with these or any laboratory reagents.

**Vial Name**

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Enzyme A  
Buffer A  
DMET Pre-Amp Water  
DMET Cleavage Tube  
DMET Amp Mix  
DMET dNTPs Plate



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**Composition / Information:**

Most of the components of this kit consist of either aqueous solutions containing buffers or enzymes, none of which are at a concentration that would render the reagents hazardous under the US Hazard Communication Standard, 20 CFR 1910.1200. The components listed below contain glycerol. This MSDS is written to apply to the glycerol.

<u>Vial Name</u>	<u>Component</u>	<u>CAS #</u>	<u>Percent(%)</u>
DMET Exo Mix	Glycerol	56-81-5	50
DMET GapFill Mix 1	Glycerol	56-81-5	50
DMET GapFill Mix 2	Glycerol	56-81-5	50
DMEt Cleavage Enzyme	Glycerol	56-81-5	50

**Hazards Identification:**

Xi - Irritant



R36/37/38 – Irritating to eye, respiratory system and skin

Physical State: Liquid

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 Contact: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Consult physician.

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

Ingestion: Minimal harm if swallowed. Rinse out mouth immediately. Do not induce vomiting. Consult physician.

Note to physician: Treat symptomatically



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**Fire Fighting Measures:**

Extinguishing media: Use alcohol resistant foam, carbon dioxide or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid. Use water spray/fog for cooling.

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

Hazardous combustion products: Carbon dioxide, carbon monoxide, dense smoke

**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: Irritating material. Use with personal protective equipment and in a well ventilated area. Keep container closed when not in use.

Storage: Store products at -20C, non-frost-free freezer  
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. Wash hands after use. Keep away from food and beverages.

Ventilation: Well ventilated area and/or local exhaust

Precautionary Labeling: None required

**Physical and Chemical Properties:**

Appearance and Odor: Slightly viscous liquid. Clear or transparent. No odor

Boiling Point (C): 217.4

Flash Point: N/A

Specific Gravity: 1.13

Vapor Density: ~0.62

pH: N/A

Solubility in Water: Miscible

**Stability and Reactivity:**

Stability: Stable under normal conditions

Incompatibility: Strong oxidizing agents and strong acids. Temperatures above flashpoint in combination with sparks, open flames or other sources of ignition.

Hazardous Decomp.: Carbon monoxide. Carbon dioxide.

Hazardous Polymerization: Not expected to occur

**Toxicological Information:**

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



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Ingredient	OSHA PEL	ACGIH - TLV	Dermal/Skin	Inhalation	Ingestion
Glycerol	15 mg/m <sup>3</sup> total (mist) 5 mg/m <sup>3</sup> resp (mist)	Not established	Not determined	Not determined	Oral – rat 12600 MG/KG

Target organ(s): Kidneys

**Ecological Information:**

Ecotoxicological Information: No ecological information available  
Environmental Fate (Degradation, Transformation, and Persistence): Bioconcentration is not expected to occur. Biodegrades quickly

**Disposal Considerations:**

Observe all Federal, State and local regulations regarding disposal

**Transport Information:**

DOT

DOT: ROAD TRANSPORT  
Non-hazardous for transport

IATA-DGR

AIR TRANSPORT: IATA CARGO  
Non-hazardous for transport

**Regulatory:**

TSCA: This product is solely for use for research and development purposes and may not be used, processed or distributed for a commercial purpose. It may only be handled by technically qualified individuals.

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

Canada:

DSL/NDSL: Not Determined

Component: Glycerol  
WHMIS Classification: D2B

European Union:

Product Risk Phrases: R36/37/38 – Irritating to eyes, respiratory system and skin  
Product Safety Phrases: S25 – Avoid contact with they eyes.  
S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S20 – Wear suitable gloves and eye/face protection

Product Classification: Not classified  
Component: Glycerol



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EINES Number: 200-289-5

**Other Information:**

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