

MATERIAL SAFETY DATA SHEET

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Date prepared: 02/10/2001
MSDS Number: ACC00407

Product and Company Identification

Product Name: PNP substrate buffer, 5X concentrate and substrate diluent (1X)

Catalog Number: ACC 00407 and PDN 00021

Company: Agdia, Inc
Address: 30380 County Rd 6
Elkhart, IN 46514
USA
Phone: 1-800-622-4342 or
1-574-264-2014

Material / Ingredient Identification

Chemical Name:	CAS Number	Exposure Limits
Diethanolamine	111-42-2	3 ppm OSHA
Sodium azide	26628-22-8	0.3 mg/m ³ OSHA

Physical Chemical Characteristics

Boiling Point: 217°C / 150 mm	Specific Gravity: 1.097 Diethanolamine 1.850 Sodium azide
Vapor Pressure: < .98 ATM @ 100°C	Melting Point: 27°C to 30°C
Vapor Density: 3.6	Evaporation Rate: NA
Solubility in Water: NA	Water Reactive: No
Appearance and odor: Colorless liquid	

Fire and Explosion Hazard Data

Flash Point: 280°F
Flammability Limits: NA
Autoignition temperature: 689°F
Extinguisher Media: Carbon dioxide, dry chemical powder or appropriate foam.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.
Unusual Fire and Explosion Hazards: Emits toxic fumes under fire conditions.

Reactivity Hazard Data

Chemical Stability: Stable X Unstable _____
Conditions To Avoid: N/A
Incompatibility (Materials to avoid): Oxidizing agents, copper, copper alloys, zinc, galvanized iron, acid.
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide and nitrogen oxides.
Hazardous Polymerization: May Occur _____ Will Not Occur X
Conditions to Avoid: NA

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Health Hazard Data

Routes of Entry: Inhalation X Ingestion X Skin Absorption X
Carcinogenicity: NTP _____ IARC Monograph _____ OSHA _____ Not Listed X
Health Hazards:
Acute: Diethanolamine is destructive to mucous membrane tissues, upper respiratory tract, eyes and skin. Inhalation may be fatal.
Chronic: NA

Signs and Symptoms of Exposure: Burning sensation, coughing, wheezing, shortness of breath, vomiting, headache, nausea, and laryngitis.
Medical Conditions Generally Aggravated by Exposure: No data

First Aid Procedures

Eye Contact: Flush eyes with water for at least 15 minutes.
Skin Contact: Flush skin with water. Remove contaminated clothing and wash before reuse.
Inhalation: Get to fresh air.
Ingestion: If person is conscious, wash mouth out with water. Get medical attention.

Seek medical assistance for further treatment, observation and support if necessary.

Control and Protective Measures

Respiratory Protection: If respirator is needed, follow OSHA respirator protection standards found in 29CFR1910.134.
Protective Gloves: Chemical resistant gloves.
Eye Protection: Chemical safety goggles.
Ventilation: Use adequate general or local exhaust ventilation.
Other Protective Clothing and Equipment: Wear lab coat or apron.
Hygienic Work Practices: Use good laboratory practices. Wash hands after using.

Precautions for Safe Handling and Use

Steps to be Taken If Material Is Spilled Or Released: Evacuate area. Shut off ignition sources. Wear self-contained breathing apparatus and protective clothing. Absorb spilled material on sand or vermiculite, then hold in closed container for disposal. Ventilate area. Wash spill site after chemical pick-up is finished.

Waste Disposal Methods: Mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Comply with all applicable federal, state, and local regulations.

Precautions for Handling and Storage: Do not get In eyes, on skin, or on clothing. Do not breathe vapor.

Other Precautions and/or Special Hazards: Diethanolamine is corrosive and causes burns. Diethanolamine is subject to the notification requirements of SARA 313.

The above information is believed to be correct but is not all inclusive and should be used only as a guide.