

EPICENTRE BIOTECHNOLOGIES
726 Post Road, MADISON WI 53713
Emergency Tel: 608-258-3080 or 800-284-8474 7:30-4:30 Central
MATERIAL SAFETY DATA SHEET
Effective: 8/2010

Section 1: Chemical Identification

Product name(s): Plant DNA Extraction Solution for MasterPure™ Plant Leaf DNA Purification Kit and Cleanup Solution for MasterPure™ Plant Leaf DNA Purification Kits MPP92010 and MPP92100; PlantAmp™ 2X PCR PreMix as component of PlantAmp™ PCR System PA08091K & PA0809100.

Section 2: Composition and Information on Hazardous Ingredients

<u>Component</u>	<u>% Wt</u>
Trade Secret	1-5

Section 3: Hazards Identification

May cause irritation to mucous membranes and upper respiratory tract
May cause skin and eye irritation

Potential Health Effects

Acute Toxicity

Eyes May cause irritation.

Skin May cause irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion May cause irritation.

Chronic Effects No known effect based on information supplied.

Section 4: First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15-20 minutes, occasionally lifting upper and lower eyelids. Obtain medical assistance. Remove contact lenses before treatment.

Skin: Obtain medical assistance. Flush skin with plenty of water for at least 15-20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Obtain medical assistance. Do **not** induce vomiting unless directed by medical personnel. If conscious and alert, rinse mouth and drink 2-4 cupfuls water. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical assistance.

Notes to Physician: Treat symptomatically and supportively.

Section 5: Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand mode, MSHA/NIOSH (approved or equivalent), and wear full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. runoff from fire control or dilution water may cause pollution.

Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistance foam. Use agent most appropriate to extinguish the fire.

Not flammable. Emits toxic fumes under fire conditions.

Section 6: Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions given in Section 8. If liquid evaporates, avoid dusty conditions. Provide ventilation. Follow local, regional and national disposal regulations and requirements. Avoid direct contact with skin or eyes. Store solution as directed in instructions and away from incompatible reagents.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Avoid heat. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8: Exposure Controls/Personal Protection

Engineering controls: Facilities storing or using this material should be equipped with an eyewash facility and safety shower. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Exposure limits: No OSHA Final or vacated PELs, not NIOSH or ACGIH listed. Avoid repeated exposure. Chronic exposure

Respiratory protection: Follow respirator rules 29CFR1910.134, European Standard EN149 or other appropriate standard.

Use a NIOSH/MSHA or European EN 149 approved respirator if irritation or other symptoms are experienced.

Personal Protective Equipment: Wear appropriate clothing and gloves to prevent skin exposure. Wear protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29CFR1910.133 or EN 166.

Section 9: Physical and Chemical Properties

Appearance: The components of these kits are several vials containing aqueous solutions.

Section 10: Stability and Reactivity

Stability: Stable under normal conditions.

Incompatibility: strong oxidizing agents

Hazardous decomposition products: Nitrogen, carbon oxides

Hazardous polymerization: Will not occur

Section 11: Toxicological Information

Toxicity data	Orl-rat	LD50 100 g/kg
	Orl-mus	LD50 >40 g/kg
	IPR-mus	LD50 12 g/kg
	Unr-mus	LD50 16 g/kg
	Orl-rbt	LD50 1.04 g/kg
	Orl-gpg	LD50 100 g/kg

Section 12: Ecological Information

Ecotoxicity/Ecology: No information available.

Section 13: Disposal Considerations

Dispose material and container in accordance with appropriate federal, state and local laws and regulations. Recover and recycle if possible. Processed material may require different disposal methods.

Section 14: Transport Information

No special considerations are known. Not a DOT/IATA/IMDG controlled material.

Section 15: Regulatory Information

Airborne Exposure Limits:

OSHA Permissible Exposure Limit (PEL): 15 mg/m³ total dust, 5 mg/m³ respirable fraction for nuisance dusts.

ACGIH Threshold Limit Value (TLV): 10 mg/m³ total dust containing no asbestos and < 1% crystalline silica for Particulates Not Otherwise Classified (PNOC).

Ingredient TSCA Yes EC No Japan Yes Australia Yes Canada: Korea Yes DSL Yes NDSL No Phil. Yes

SARA 302/313 Ingredient No RQ No TPQ No List Chemical Catg. No

RCRA No TSCA Ingredient No CERCLA 261.33 8(d): No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: No Chronic: No Fire: No Pressure: No Reactivity: No

Australian Hazchem Code: No information found.

Poison Schedule: No information found.

WHMIS: This MSDS has been prepared according to the hazard criteria of the

Section 16: Other Information

The information herein is based on information from suppliers believed to be reliable; however, EPICENTRE makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages thereto. This document is offered solely as a guide for the customer's consideration, investigation and verification. These suggestions do not replace state, municipal and/or insurance requirements. Any use of this information must be determined by the user to be in accordance with applicable Federal, state and local regulations.