

Material Safety Data Sheet

According to the Commission Directive 91/155/ECC of 5 March 1991

Date prepared: 10.06.2009

Date changed: 11.06.2009

1 Product Information

Product name: MoleStrips™ DNA Plant

Product number: MG13-101/MG13-102

Manufacturer: Mole Genetics AS, Vollsveien 13D, N-1366 Lysaker, Norway
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2 Hazardous Components/ Identity Information

Well number	Component	Content	Hazards identification R-classes	First aid measures S-classes	Toxicological info
1. Empty					
2. Binding Buffer	Non-ionic Detergent	<15%			RTECS TR7400000
	Chaotropic salt	<34%	22-36/38	22	RTEC #MF4300000
	N-Propanol	50 vol%	11-41-67	7-16-24-26-39	RTEC #UH8225000
2. Magnetic beads	No hazardous components				
3. Wash Buffer A	Non-ionic Detergent	<10%			RTEC #TR7400000
	Chaotropic salt	<15%			RTEC #MF4300000
	N-Propanol	30 vol%	11-41-67	7-16-24/25-26	RTECS #UH8225000
4. Wash Buffer B	No hazardous components				
5. Wash Buffer C	No hazardous components				
6. Elution Buffer	No hazardous components				
Bottle: Lysis buffer	Cationic detergent	<2%	22-37/38-41-50	26-36-60-61	
	Inorganic salts				
	Chelator		36/37/38	26-36	RTECS AH4357000

3 Emergency and First Aid Procedures

Inhalation

If breathing becomes difficult, remove victim to fresh air. Seek medical assistance immediately.

Ingestion

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Skin contact

If skin contact occurs, wash skin with water and remove contaminated clothing. If contact with product leads to continued reddening, inflammation after rinsing with water, get medical attention.

Eye contact

Flush eye(s) with large volumes of water for at least 15 minutes. Get medical attention immediately.

4 Fire-fighting measures

No special measures required.

5 Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled

Wear appropriate personal protective clothing as specified in section 7. Use non-sparking tools and equipment (N-Propanol). Use an inert absorbent material (e.g. vermicule, dry sand) to contain/ pick up the spilled solution. Place all contaminated disposables into a suitable container, seal, label and hold for disposal.

Waste Disposal

Please consult local, state and federal regulations for additional guidance and disposal.

6 Precautions to be taken in handling and Storage

Store in tightly closed containers. N-Propanol: take measures against electrostatic loading. See package insert for further storage and handling information.

7 Control Measures

Respiratory protection

Respiratory protection is not required under normal use of this product.

Ventilation

A system of local and/or general exhaust is recommended. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

Protective gloves

Wear appropriate gloves to prevent skin contact.

Eye protection

Wear appropriate eye protection to prevent eye contact.

Other protective clothing or equipment

Wear appropriate body protection to prevent skin contact. Eye wash stations and deluge showers.

Work and hygienic practices

Good laboratory technique should be used when handling this product. Observe appropriate chemical hygiene. Avoid contact with skin or eyes. Do not place in mouth. Do not eat, drink or smoke while working with product. Upon completion of work activities involving this product, wash hands thoroughly with soap and water.

8 Physical and Chemical Characteristics

Boiling point	N/A	Specific gravity (H₂O=1)	N/A
Vapor pressure (mm Hg)	N/A	Melting point	N/A
Vapor density (AIR=1)	N/A	Evaporation rate (Butyl Acetate=1)	N/A
Solubility in water	soluble in water.		
Appearance and odor	All wells and bottles contain aqueous solutions: Binding Buffer/magnetic beads: brown suspension. Wash buffer A yellowish liquid. Wash B & C: Colorless liquid . Elution and lysis buffers: Colorless liquid.		

9 Stability and Reactivity

Stability

Stable under normal handling and storage conditions for six months after delivery.

10 Ecological Information

Environmental fate/stability

N-Propanol is expected to readily biodegrade when released into soil and water and is degraded when released into air.

Effect of material on plants or animals

N/A

Effect of chemical on aquatic life

N-Propanol is not expected to be toxic to aquatic life. The LC₅₀/69-hour values for fish are over 100 mg/L

11 Disposal considerations

Product

Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

12 Transport Information

Is this material hazardous? Yes

RID/ADR

Proper shipping name: N-Propanol
Hazard class number: 3 Packaging group: II UN number: UN 1170

IMDG

Proper shipping name: N-Propanol
Hazard class number: 3 Packaging group: II UN number: UN 1170
Marine pollutant: No Severe marine pollutant: No

IATA

Proper shipping name: N-Propanol
Hazard class number: 3 Packaging group: II UN number: UN 1170

13 Other Information

The information herein is believed to be correct as of the date hereof but is provided without warranty of any kind. The recipient of our products is responsible for ensuring that, where applicable, existing laws and guidelines are observed. All the information in this MSDS is given for safety and first aid purposes.

These are not data to ensure the quality or performance of the Kit.

Reasons for alteration

Change in constituent data.

General update.