



Moist Mark Plus™

1. Identification

Product Name: Moist Mark Plus™ (ink contained

therein)

Synonyms: N/A

1-877-846-5393

Recommended Use: Special Stains Manufacturer:
Cancer Diagnostics, Inc.
116 Page Point Circle
Durham, NC 27703

Item #: MP1000, MP2100, MP1000ML

Restrictions on Use: N/A

In Case of Emergency: Chemtrec US 1-800-424-9300 Infotrac International 1-352-323-3500

2. Hazards Identification

OSHA Hazard Classification(s):

Skin Irritation - Category 2 Eye Irritation - Category 2 Skin Sensitivity – Category 1 **Signal Word:** Warning

Hazard Statement(s): Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

Pictogram(s):



Precautionary Statement(s):

<u>Prevention</u>: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Wear protective clothing/eye protection/face protection.

Response: N/A Storage: N/A

<u>Disposal</u>: Dispose of contents/container in accordance with local and national regulations. **Descriptions of Hazards not otherwise classified:** No data available.

Percent of mixture with unknown acute toxicity: N/A

3. Composition and Information on Ingredients

No	Substance name			Additional information		
	CAS / EC / Index / REACH no	Classification 67/548/EEC	Classification (EC) 1272/2008 (CLP)	Concentration		%
1	ethanediol					
	107-21-1	Xn; R22	Acute Tox. 4*; H302	1.00 -	5.00	%-b.w.
	203-473-3					
	603-027-00-1					
	-					
2	propan-2-ol					
	67-63-0	F; R11	Eye Irrit. 2; H319	0.10 -	1.00	%-b.w.
	200-661-7	Xi; R36	Flam. Liq. 2; H225			
	603-117-00-0	R67	STOT SE 3; H336			
	=					
3	1,3,5-tris(2-hydroxy	ethyl)-1,3,5-triazinane				
	4719-04-4	Xn; R22	Acute Tox. 4*; H302	0.10 -	1.00	%-b.w.
	225-208-0	R43	Skin Sens. 1; H317			
	613-114-00-6					
	-					



Moist Mark Plus™

4	ammonia, anhydro	ous				
	7664-41-7 231-635-3 007-001-00-5	R10 T; R23 C; R34 N; R50	Acute Tox. 3*; H331 Aquatic Acute 1; H400 Flam. Gas 2; H221 Press. Gas Skin Corr. 1B; H314	0.10	- 1.00	%-b.w.
5	1,2-benzisothiazol-3(2H)-one					
	2634-33-5 220-120-9 613-088-00-6	Xn; R22 Xi; R38 Xi; R41 R43 N; R50	Acute Tox. 4*; H302 Aquatic Acute 1; H400 Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 0.50		%-b.w.
6	CARBON BLACK					
	1333-86-4 215-609-9 -	-	-	10.00	- 20.00	%-b.w.

Full Text for all R-phrases , H-phrases and EUH-phrases: pls. see section 16(*,**,***********) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
3	-	Skin Sens. 1; H317: C >= 0.1%	-	-
4	U	-	-	-
5	-	Skin Sens. 1; H317: C >= 0.05%	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances (IEC) No 1272/2008. Annex VII"

Other information

The data subject of this Material Safety Data sheet refer to the ink contained in this product (marker).

4. First Aid Measures

Description of first aid measures

<u>General Information</u>: In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

Inhalation: Ensure supply of fresh air.

Skin Contact: Wash off immediately with soap and water.

<u>Eye Contact</u>: Remove contact lens. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

<u>Ingestion</u>: Rinse mouth thoroughly with water. Call a doctor immediately. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: No data available.

Indication of any immediate medical attention and special treatment needed: No data available.

5. Fire- Fighting Measures

Extinguishing media

Suitable extinguishing media: Foam; Carbon dioxide; Extinguishing powder; Water spray jet

Unsuitable extinguishing media: High power water jet

Special hazards arising from the substance or mixture: None known.

Advice for firefighters: Use self-contained breathing apparatus. Wear protective clothing.

6. Accidental Release Measures

Emergency Procedures:

Personal precautions, protective equipment and emergency procedures

<u>For non-emergency personnel</u>: Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing.

For emergency responders: No data available.

Personal protective equipment (PPE): see Section 8.



Moist Mark Plus™

Environmental precautions: Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Methods and material for containment and cleaning up: Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When picked up, treat material as prescribed under heading "Disposal considerations".

Reference to other sections: No data available.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling: Provide good ventilation of working area (local exhaust ventilation, if necessary). Observe the usual precautions for handling chemicals.

General protective and hygiene measures: Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work

Advice on protection against fire and explosion: No special measures necessary.

Conditions for safe storage, including any incompatibilities

<u>Technical measures and storage conditions</u>: Keep container tightly closed and dry in a cool, well-ventilated place.

<u>Requirements for storage rooms and vessels</u>: Store product in closed containers. Protect from heat and direct sunlight.

<u>Advice on storage assembly</u>: None known

Specific end use(s): No data available.

8. Exposure Controls/Personal Protection

Control parameters

Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	CARBON BLACK	1333-86-	4	215-609-	9
-	List of approved workplace exposure limits (WELs)		-		
	Carbon black				
	STEL	7	mg/m³		
	TWA	3.5	mg/m³		
2	ethanediol	107-21-1		203-473-	3
	2000/39/EWG				
	Ethylene glycol				
	STÉL	104	mg/m³	40	ml/m³
	TWA	52	mg/m³	20	ml/m³
	Skin resorption / sensibilisation	Skin			
	List of approved workplace exposure limits (WELs)	/EH40			
	Ethane 1,2-diol				
	particulate				
	TWA	10	mg/m³		
	Skin resorption / sensibilisation	Sk			
	List of approved workplace exposure limits (WELs)	/EH40			
	Ethane 1,2-diol				
	vapour				
	STEL	104	mg/m³		
	TWA	52	mg/m³		
	Skin resorption / sensibilisation	Sk			
3	propan-2-ol	67-63-0		200-661-	7
	List of approved workplace exposure limits (WELs)	/ EH40			
	Propan-2-ol				
	STEL	1250	mg/m³	500	ml/m³
	TWA	999	mg/m³	400	ml/m³
4	ammonia, anhydrous	7664-41-	7	231-635-	3
	List of approved workplace exposure limits (WELs)	/ EH40			
	Ammonia				



Moist Mark Plus™

STEL	25	mg/m³	35	ml/m³
TWA	18	mg/m³	25	ml/m³
2000/39/EWG				
Ammonia, anhydrous				
STEL	36	mg/m³	50	ml/m³
TWA	14	mg/m³	20	ml/m³

Exposure controls

Appropriate engineering controls: No data available.

Personal protective equipment

Respiratory protection: If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection: Safety glasses: (EN 166)

Hand protection: In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other: Normal chemical work clothing.

Environmental exposure controls: No data available.

9. Physical and Chemical Properties Section

Form/Color: Liquid/Black

Odor: N/A

Odor Threshold: N/A

pH: N/A

Boiling Point and Boiling Range: 100°C **Melting Point/Freezing Point:** N/A **Decomposition Temperature:** N/A

Flash Point: N/A

Auto-ignition temperature: N/A Explosive properties: N/A Oxidising properties: N/A Flammability (solid/gas): N/A

Upper/Lower flammability or explosive limits: N/A

Vapor Density: N/A
Vapor Pressure: N/A
Evaporation Rate: N/A

Specific Gravity/Relative Density: N/A

Solubility in water: Soluble

Solubility: N/A Viscosity: N/A

Partition coe	efficient: n-octanol/water			
No Substa	nce name	CAS no.		EC no.
1 1,2-ben	zisothiazol-3(2H)-one	2634-33-5		220-120-9
log Pow			1.3	
Source		Manufacturer		

Other: N/A



Moist Mark Plus™

10. Stability and Reactivity

Reactivity: N/A

Chemical stability: Stable under recommended storage and handling conditions (See section 7).

Possibility of hazardous reactions: N/A

Conditions to avoid: N/A

Incompatible Materials: None known.

Hazardous Decomposition Products: N/A

11. Toxicological Information

Information on toxicological effects

Acu	Acute oral toxicity						
No	Product Name						
1	Ink contained in: CDI's Moist Mark Plus™						
LD5		>	5000	mg/kg			
Spec	cies	rat					
Sour	ce	Manufacturer					

Acut	Acute dermal toxicity						
No	Product Name						
1	Ink contained in: CDI's Moist Mark Plus™						
LD50		>	5000	mg/kg			
Spec	ies	rabbit		<u> </u>			
Sour	ce	Manufacturer					

Acu	Acute inhalational toxicity							
No	Product Name							
1	Ink contained in: CDI's Moist Mark Plus™	4						
LC5)	>		50000	mg/m³			
State	of aggregation	Dust/mist			-			
Spec	ies	rat						
Sour	ce	Manufacturer						
No	Substance name		CAS no.		EC no.			
2	propan-2-ol		67-63-0		200-661-7			
LC5)			72.6	mg/l			
Dura	tion of exposure			4	h			
State of aggregation		Vapour						
Spec	ies	rat						
Sour	ce	Manufacturer						

Skin corrosion/irritation: No data available
Serious eye damage/irritation: No data available
Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available Reproduction toxicity: No data available Carcinogenicity: No data available STOT-single exposure: No data available STOT-repeated exposure: No data available

Aspiration hazard: No data available



Moist Mark Plus™

12. Ecological Information

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Toxi	icity to fish (acute)				
No	Substance name	CAS no.		EC no.	
1	propan-2-ol	67-63-0		200-661-7	
LC5	0		9640	mg/l	
Dura	ation of exposure		96	h	
		Pimephales promelas			
Sour	ce	Manufacturer			
2	1,2-benzisothiazol-3(2H)-one	2634-33-5		220-120-9	
LC5	0		2.18	mg/l	
Dura	ation of exposure		96	h	
Spec	cies	Oncorhynchus mykiss			
Meth	od	OECD 203			
Sour	ce	Manufacturer			

Toxicity to fish (chronic): No data available

Toxi	city to Daphnia (acute)				
No	Substance name	CAS no.		EC no.	
1	propan-2-ol	67-63-0		200-661-7	
EC5	0		13299	mg/l	
Dura	ation of exposure		48	h ¯	
Spec	ies	Daphnia magna			
Sour	ce	Manufacturer			
2	1,2-benzisothiazol-3(2H)-one	2634-33-5		220-120-9	
EC5	0		2.94	mg/l	
Dura	ation of exposure		48	h	
Spec	ies	Daphnia magna			
Meth	od	OECD 202			
Sour	ce	Manufacturer			

Toxicity to algae (acute)				
No Substance name	CAS n	0.	EC no.	
1 propan-2-ol	67-63-0	0	200-661-7	
EC50	>	1000	mg/l	
Duration of exposure		72	h	
Species	Desmodesmus subsp	Desmodesmus subspicatus		
Source	Manufacturer			
2 1,2-benzisothiazol-3(2H)-one	2634-3	3-5	220-120-9	
ErC50		0.11	mg/l	
Duration of exposure		72	h	
Species	Pseudokirchneriella s	Pseudokirchneriella subcapitata		
Method	OECD 201	OECD 201		
Source	Manufacturer			

Toxicity to algae (chronic): No data available

Bacteria toxicity: No data available Persistence and degradability

Biod	Biodegradability				
No	Substance name	CAS no.		EC no.	
1	propan-2-ol	67-63-0		200-661-7	
Valu	le		95	%	
Dura	ation		21	day(s)	
Meth	od	OECD 301 E			
Sour		Manufacturer			
Evalu	uation	readily biodegradable			



Moist Mark Plus™

Bioaccumulative potential

Partition coefficient: n-octanol/water				
No	Substance name	CAS no.	EC no.	
1	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	
log F	Pow	1.3		
Sour	ce	Manufacturer		

Mobility in soil: No data available

Results of PBT and vPvB assessment: No data available

Other adverse effects: No data available

Other information: Do not discharge product unmonitored into the environment.

13. Disposal Considerations

Waste treatment methods:

<u>Product</u>: Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

<u>Packaging</u>: Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

Physical/Chemical Properties affecting Disposal: See section 2 and section 9 applicable information.* Special Precautions for Landfill and Incineration Activities: Check with your local waste authorities.*

Waste Stream: Consult your local or regional authorities.*

14. Transport Information

ADR/RID/AND: The product is not subject to ADR/RID/ADN regulations.

IMDG: The product is not subject to IMDG regulations.

ICAO-TI / IATA: The product is not subject to ICAO-TI / IATA regulations.

Other information: No data available Environmental hazards: No data available Special precautions for user: No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not relevant

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture: EU regulations:

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.

No 3



Moist Mark Plus™

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

<u>Remarks</u>: Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10. **Chemical safety assessment:** For this mixture a chemical safety assessment has not been carried out.

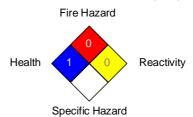
16. Other Information

Revision Date: 2019-01-11

NFPA

Health	1
Fire Hazard	0
Reactivity	0
Specific Hazard	

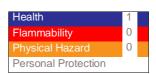
National Fire Protection Association (USA) NFPA



HMIS

Health	1
Flammability	0
Physical Hazard	0
Personal Protect	tion

Hazardous Material Information System HMIS



Full text of the R-, H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

- R10 Flammable.
- R11 Highly flammable.
- R22 Harmful if swallowed.
- R23 Toxic by inhalation.
- R34 Causes burns.
- R36 Irritating to eyes.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- R43 May cause sensitisation by skin contact.
- R50 Very toxic to aquatic organisms.
- R67 Vapours may cause drowsiness and dizziness.
- H221 Flammable gas.
- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.