



MATERIAL SAFETY DATA SHEET

Thermochromic Water Based Hair Dye Treatment

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MSDS116 Revision 1
Revision Date 10/10/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Thermochromic Water Based Hair Dye Treatment
Description	Thermochromic Capsules in Water Based Binder
Company	LCR Hallcrest 1911 Pickwick Lane Glenview IL 60026
Telephone	+1 847 998 8580
Fax	+1 847 998 6866
Emergency telephone number	+1 847 998 8580
Intended use	Manufacture of temperature-indicating products and temperature-sensitive decorative effects.

2. HAZARDS IDENTIFICATION

Statement of Hazard	May be harmful if swallowed. May cause irritation to skin, eyes, and respiratory tract.
Properties	Color Various colors according to type State Liquid

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients

	Conc.	CAS
Formaldehyde...% (Formaldehyde)	0 - 0.5%	50-00-0
5-Decyne-4,7-diol, 2,4,7,9-tetremethyl-	1 - 5%	126-86-3
1,2-Propanediol	1 - 5%	57-55-6

4. FIRST AID MEASURES

Skin contact	May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Eye contact	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Inhalation	May cause irritation of the respiratory tract. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. If symptoms persist, call a physician.
Ingestion	May be harmful if swallowed. Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

5. FIRE FIGHTING MEASURES

Extinguishing media	Water spray, Carbon dioxide, Dry chemical, Foam
Flammable Properties	Keep away from open flames, hot surfaces and sources of ignition.
Fire hazards	Burning produces irritating, toxic and obnoxious fumes.
Protective equipment	Wear suitable respiratory equipment when necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation of the working area.
Environmental precautions	Do not allow product to enter drains. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained. Do not flush into surface water or sanitary sewer system.
Clean up methods	Absorb with inert, absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up. Transfer to suitable, labeled containers for disposal. Clean contaminated surface thoroughly. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum.

7. HANDLING AND STORAGE

Handling	Wear personal protective equipment. Avoid contact with eyes and skin. Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Ensure adequate ventilation.
Storage	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labeled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values

Formaldehyde...%	ACGIH TLV TWA: -	ACGIH TLV STEL: C 0.3 ppm
(Formaldehyde)	Notations: SEN; A2	OSHA PEL 8hr TWA ppm: -
	OSHA PEL 8hr TWA	
	mg m3: -	Skin Designation: -

Engineering measures	Ensure adequate ventilation of the working area.
Hand protection	Chemical resistant gloves (PVC)
Eye protection	In case of splashing, wear: Approved safety goggles.
Protective equipment	Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid
Color	Various colors according to type
Odor	Characteristic
Boiling Point	100°C
Flash Point	>93°C
Relative Density	0.8 – 1.1
Water Solubility	Dispersible in Water

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Condition to Avoid	Heat, flames and sparks
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Component	LD50 Oral	LD50 Dermal
1,2-Propanediol	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)

12. ECOLOGICAL INFORMATION

Toxicity	Components of this product have been identifies as having potential environmental concerns.			
Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
1,2-Propanediol	EC50 = 19000 mg/L 96 h	LC50 = 51400 mg/L 96 h	EC50 = 710 mg/L 30 min	EC50 > 10000 mg/L 48 h

13. DISPOSAL CONSIDERATIONS

General information Dispose of in compliance with all local and national regulations.

14. TRANSPORT INFORMATION

Further information The product is not classified as dangerous for carriage.

15. REGULATORY INFORMATION

Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Formaldehyde...%	Y	Y	Y 0.1	Y	N	Y	Y	Y 500	Y 100
1,2-Propanediol	Y	N	N	N	N	Y	N	N	N

16. OTHER INFORMATION

Statement of Hazard

Further information The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

TSCA

All components are TSCA compliant.

HMIS LABELLING

HEALTH 1, FLAMMABILITY 1, PHYSICAL HAZARD 0 PERSONAL PROTECTION: B