

SAFETY DATA SHEET

Chromazone Dispersion BPA Free

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MSDS111 Revision 3
Revision Date 08/10/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Chromazone Dispersion BPA Free	
Additional Names	None	
Description	Aqueous temperature sensitive color change pigment dispersion.	
Intended Use	Manufacture of color change inks and coatings.	
Company	LCR Hallcrest 1911 Pickwick Lane Glenview IL 60026 USA	
Web	www.hallcrest.com	
Telephone	+1 847 998 8580	
Fax	+1 847 998 6866	
Email	sales@hallcrest.com	
Emergency telephone number	Chemtel	Domestic: 800-255-3924 Intl: +01-813-248-0585

2. HAZARDS IDENTIFICATION.

GHS Classification Skin Sens. 1: H317; Carc. 1B: H350;

GHS Label Elements Pictograms



Signal Word Hazard Statements

Danger
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Carc. 1B: H350 - May cause cancer .

Precautionary Statement

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of water/ .
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P321 - Specific treatment (see on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container to

3. COMPOSITION / INFORMATION ON INGREDIENTS.			
Hazardous ingredients	Classification	Conc.	CAS
Formaldehyde	Carc. 1B: H350; Muta. 2: H341; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; Skin Corr. 1B: H314; Skin Sens. 1: H317;	<0.5%	50-0-0
4. FIRST AID MEASURES			
Description of first aid measures			
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.		
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.		
Inhalation	Move the exposed person to fresh air. Seek medical attention.		
Ingestion	Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.		
Most important symptoms and effect, both acute or delayed.			
Skin contact	May cause sensitisation by skin contact. Avoid contact with skin.		
Eye contact	Irritating to eyes.		
Inhalation	Irritant, moderate respiratory.		
Ingestion	Ingestion may cause nausea and vomiting.		
Indication of any immediate medical attention and special treatment needed			
Skin contact	May cause sensitisation by skin contact.		
Eye contact	Irritating to eyes. Seek medical attention if irritation or symptoms persist.		
Inhalation	Coughing, difficulty in breathing.		
Ingestion	If you feel unwell, seek medical advice (show the label where possible). Ingestion may cause nausea and vomiting.		
5. FIRE FIGHTING MEASURES			
Extinguishing Media	Carbon oxides		
Specific hazards arising from the chemical	Burning produces irritating, toxic and obnoxious fumes.		
Special protective actions for fire-fighters	Wear suitable respiratory equipment when necessary.		
6. ACCIDENTAL RELEASE MEASURES			
Personal Precautions, protective equipment and emergency procedures	Ensure adequate ventilation of the working area. Wear suitable protective equipment.		
Environmental Precautions	Do not allow product to enter drains. Prevent further spillage if safe.		
Methods and material for containment and cleaning up	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.		
7. HANDLING AND STORAGE			
Individual protection measures	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.		
Conditions for safe storage, including incompatibilities:	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.		
Specific end uses:	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.		
8. EXPOSURE CONTROLS / PERSONAL PROTECTION			
Exposure Limits			

Formaldehyde	WEL 8-hr limit ppm: 2	WEL 8-hr limit mg/m3: 2.5
	WEL 15 min limit ppm: 2	WEL 15 min limit mg/m3: 2.5
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total -respirable dust:
	WEL 8-hr limit ppm: 400	WEL 8-hr limit mg/m3: 999

Control Parameters

Appropriate Engineering Controls Ensure adequate ventilation of the working area.

Individual Protection Measures

Individual protection measures Wear chemical protective clothing.

Eye/face protection Approved safety goggles

Skin protection – Hand protection Chemical resistant gloves (PVC).

Respiratory protection Wear: Suitable respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colors	Colors according to type.
Odor	Characteristic
Odor threshold	N/A
pH	N/A
Melting Point/Freezing Point	No testing available.
Initial Boiling Point and Boiling Range	No testing available.
Flash Point	No testing available.
Evaporation rate	No testing available.
Flammability	No testing available.
Upper/Lower Flammability or Explosive Limits	No testing available.
Vapor Pressure	No testing available.
Solubility	Miscible in water.
% Volatiles (by volume)	No testing available.

10. STABILITY AND REACTIVITY

Reactivity	No data available.
Chemical Stability	Stable under normal conditions.
Possibility of hazardous reactions	No Significant Hazard.
Conditions to avoid	Protect from frost.
Incompatible materials	Alkalis.
Hazardous Decomposition Products	Formaldehyde may be generated and other harmful fumes.

11. TOXICOLOGICAL INFORMATION

Toxicological Information		
Color Developer	Oral Rat LD50: 3400 mg/kg	
Formaldehyde	Inhalation Rat LC50/2H h: 250 ppm Oral Mouse LD50: 500 mg/kg Dermal Rabbit LD50: 270 mg/kg	Oral Rat LD50: 500 mg/kg Inhalation Mouse LC50/2H h: 505 mg/m3

Skin corrosion/irritation No test data available

Serious eye damage/irritation No test data available

Respiratory or skin sensitization No test data available

Germ cell mutagenicity No test data available

Carcinogenicity No test data available

Reproductive toxicity No test data available
STOT-single exposure No test data available
STOT-repeat exposure No test data available
Aspiration hazard No test data available
Likely routes to exposure

12. ECOLOGICAL INFORMATION

Toxicity Formaldehyde Daphnia 1 EC50 – 54mg/l

Persistence and degradability No data available
Bioaccumulative potential No data available
Mobility in soil No data available
Other adverse effects Harmful to aquatic organisms

13. DISPOSAL CONSIDERATIONS

General information Dispose of in compliance with all local and national regulations. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

14. TRANSPORT INFORMATION

UN Number This product is not classified as dangerous for carriage.
UN Proper Shipping Name This product is not classified as dangerous for carriage.
Transport Hazard class(es) This product is not classified as dangerous for carriage.
Packing Group (if applicable) This product is not classified as dangerous for carriage.
Environmental Hazards This product is not classified as dangerous for carriage.
Special Precautions for the User This product is not classified as dangerous for carriage.
DOT This product is not classified as dangerous for carriage.
IMDG This product is not classified as dangerous for carriage.
IATA This product is not classified as dangerous for carriage.
Further Information

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

15. REGULATORY INFORMATION

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Formaldehyde	Y	Y	Y0.1	Y	N	Y	Y	Y 500	Y 100

16. OTHER INFORMATION

Revision Revision 3: Major revision to include the requirements of the HCS/HazCom 2012 Final Rule.
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.
'HMIS LABELLING HEALTH 1, FLAMMABILITY 0, PHYSICAL HAZARD 0, PERSONAL PROTECTION: B.