

SAFETY DATA SHEET TP31 Thermochromic FF Powder - Bis A Free

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MSDS081 Revision 3 Revision Date 05/28/2015

1. PRODUCT AND COMPANY IDENT					
Product name	Thermochromic FF Powe	der BIS A Free			
Additional Names	None				
Description	Thermochromic powder				
Intended Use	May be used to prepare color change plastic masterbatch.				
Company					
Company	LCR Hallcrest				
	1911 Pickwick Lane				
	Glenview				
14/-1-	IL 60026 USA				
Web	www.hallcrest.com				
Telephone					
Fax	+1 847 998 6866				
Email	sales@hallcrest.com				
Emergency telephone	Chemtel	Domestic:	800-255-3924		
number		Intl:	+01-813-248-0585		
2. HAZARDS IDENTIFICATION.					
GHS Classification	Skin Irrit. 2: H315; Eye Ir	rrit 2. H310.			
	олитина. 2. ПОТО, LYC II				
GHS Label Elements					
	•				
Pictorgrams					
	•				
Signal Word	Warning				
Hazard Statements	Skin Irrit. 2: H315 - Caus	ses skin irritetio	n		
Hazaru Statements	Eve Irrit. 2: H319 - Caus				
Brooputionany	P264 - Wash thoroughly	,			
Precautionary	P280 - Wear protective	aner nariuring.	e clothing/eye protection/face	protection	
Statement	P302+P352 - IF ON SKI			protection.	
				rol minutos D	0000
		NETES: RINSE	cautiously with water for seve	rai minutes. R	eniove
	contact	auto de Oest			
	lenses, if present and ea				
	P321 - Specific treatmen				
			et medical advice/attention.		
	P337+P313 - It eye irrita	ition persists: G	et medical advice/attention.		
			D .		
Classification	Skin Irrit. 2: H315; Ey	e irrit. 2: H31	9;		
1994/45/EC					
3. COMPOSITION / INFORMATION	ON INGREDIENTS.				
Hazardous ingredients	Classification			Conc.	CAS
Colour developer	Skin Irrit. 2: H315; Eye Irrit.	. 2:		10-20%	
	H319; STOT SE 3: H335;				
				•	· ·

4. FIRST AID MEASURES			
Description of first aid measur			
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		
Inhalation	attention if irritation or symptoms persist. 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 Irritating to the skin.			
Eye contact Inhalation	e i		
imalation	of the respiratory system.		
Ingestion Indication of any immediate m		ause nausea and vomiting.	
Skin contact		iff immediately with plenty of soap and water.	
Eye contact	May cause irritation to the eyes. Rinse immediately with plenty of water for 15 minutes holding the		
-	eyelids open. Seek medical attention if irritation or symptoms persist.		
Inhalation Ingestion		st may cause shortness of breath. ause nausea and vomiting. If you feel unwell, seek medical advice (show the label	
	where possible)		
5. FIRE FIGHTING MEASURES			
Extinguishing Media	Use as appropr	iate: carbon dioxide (CO2), dry chemical, foam.	
Specific hazards arising from	Burning produc	es irritating, toxic and obnoxious fumes.	
the chemical	Burning produc	es initaling, toxic and obroxious fumes.	
Special protective actions for	Wear suitable r	espiratory equipment when necessary	
fire-fighters Wear suitable respiratory equipment when necessary.			
6. ACCIDENTAL RELEASE MEASURE	S		
Personal Precautions, protect		ing dust. Ensure adequate ventilation of the working area. Wear suitable	
	equipment and emergency procedures		
Environmental Precaut		and the sector desires . Descent for the sec "lines of the fo	
Environmental Precaut	ions Do not allo	ow product to enter drains. Prevent further spillage if safe.	
Methods and materia containment and cleaning		. Transfer to suitable, labelled containers for disposal. Clean spillage area vith plenty of water.	
7. HANDLING AND STORAGE	g up thoroughly		
7. HANDLING AND STORAGE			
		Avoid contact with eyes and skin. Ensure adequate ventilation of the working	
Individual protect	ction measures	area. Adopt best Manual Handling considerations when handling, carrying and dispensing	
Conditions for safe stor	•	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.	
IIIC	compatibilities:		
Specific end uses:		Keep away from sources of ignition – No smoking	
Suitable Packaging:		Plastic Containers	
- Or		On processing FF powders for masterbatch heating may result in generation of	
formaldehyde. Ensure adequate ventillation of all fumes.			
8. EXPOSURE CONTROLS / PERSON	IAL PROTECTION		

Individual protection measures Wear chemical protective clothing.

Eye/face protection	on Approved safety goggles
Skin protection – Ha protectio	
Respiratory protection	on Wear suitable respiratory equipment.
Environmental Exposu Contro	
9. PHYSICAL AND CHEMICAL PROPE	RTIES
Appearance	Powder
Colors Odor	Various colors according to type.
Odor threshold	Slight N/A
pH	N/A
Melting Point/Freezing Point	No testing available.
Initial Boiling Point and	N/A
Boiling Range	
Flash Point	No testing available. No testing available.
Evaporation rate Flammability	No testing available.
Upper/Lower Flammability or	
Explosive Limits	No testing available.
Vapor Pressure	No testing available.
Solubility	Insoluble in water.
10. STABILITY AND REACTIVITY	
Reactivity	Avoid sparks, flames, heat and sources of ignition.
Chemical Stability	Stable under normal conditions.
Possibility of hazardous	Heating during moulding will generate high levels of formaldehyde vapours which should be
reactions	vented.
Conditions to avoid Incompatible materials	No Significant Hazard. Avoid contact with: Strong bases.
Hazardous Decomposition	Formaldehyde may be generated and other harmful fumes.
Products	romaidenyde may be generated and other narmur rumes.
11. TOXICOLOGICAL INFORMATION	
Toxilogical Information	
Toxilogical Information Colour developer	Oral Rat LD50: 3400 mg/kg
•	Oral Rat LD50: 3400 mg/kg May cause sensitization by skin contact
Colour developer	
Colour developer Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	May cause sensitization by skin contact No test data available No test data available
Colour developer Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	May cause sensitization by skin contact No test data available No test data available No test data available
Colour developer Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	May cause sensitization by skin contact No test data available No test data available No test data available No test data available
Colour developer Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity	May cause sensitization by skin contact No test data available No test data available
Colour developer Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure	May cause sensitization by skin contact No test data available No test data available
Colour developer Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity	May cause sensitization by skin contact No test data available No test data available
Colour developer Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeat exposure	May cause sensitization by skin contact No test data available No test data available
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Colour developer Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeat exposure Aspiration hazard <u>12. ECOLOGICAL INFORMATION</u> Persistence and degradability Bioaccumulative potential	May cause sensitization by skin contact No test data available
Colour developer Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeat exposure STOT-repeat exposure Aspiration hazard 12. ECOLOGICAL INFORMATION Persistence and degradability Bioaccumulative potential Mobility in soil	May cause sensitization by skin contact No test data available No data available
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Colour developer Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeat exposure Aspiration hazard 12. ECOLOGICAL INFORMATION Persistence and degradability Bioaccumulative potential Mobility in soil Other adverse effects 13. DISPOSAL CONSIDERATIONS	May cause sensitization by skin contact No test data available No data available
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Colour developer Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeat exposure Aspiration hazard 12. ECOLOGICAL INFORMATION Persistence and degradability Bioaccumulative potential Mobility in soil Other adverse effects 13. DISPOSAL CONSIDERATIONS	May cause sensitization by skin contact No test data available Dispose of in compliance with all local and national regulations.

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.
ΙΑΤΑ	This product is not classified as dangerous for carriage.
Further Information	For this product a chemical safety assessment was not carried out.

15. REGULATORY INFORMATION

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Further Information: For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Revision	Revision 3: Major revision to include the requirements of the HCS/HazCom 2012 Final Rule. Formaldehyde was removed from the SDS because it is below the reportable limit of 0.1%.
Text Hazard Statements	Skin Irrit. 2: H315 - Causes skin irritation.
from Section 3	Eye Irrit. 2: H319 - Causes serious eye irritation.
	P264 - Wash thoroughly after handling.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P302+P352 - IF ON SKIN: Wash with plenty of water/ .
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	P321 - Specific treatment (see on this label).
	P332+P313 - If skin irritation occurs: Get medical advice/attention.
	P337+P313 - If eye irritation persists: Get medical advice/attention.
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 without material action and the product.
HMIS LABELLING	material used in combination with any other materials or in any other process. HEALTH 1, FLAMMABILITY 1, PHYSICAL HAZARD 1.