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.

TORONTO MASTERBATCHES (CANADA) 2 LONE OAK COURT TORONTO ONTARIO M9C 5R9 PHONE: 416-847-7000

FOR ALL EMERGENCIES 269-753-8434 PREPARED BY: PRODUCT SAFETY DEPARTMENT

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CLARIANT WEBSITE: HTTP://WWW.CLARIANTMASTERBATCH.COM

PRODUCT DESCRIPTION: ABS SAMSUNG 1650 004.000% 7857 BEIGE PRODUCT CODE: SB82754505

***** MATERIAL SAFETY DATA SHEETS *****

THE ATTACHED MATERIAL SAFETY DATA SHEET (MSDS) IS AN IMPORTANT DOCUMENT. THE OSHA HAZARDOUS COMMUNICATION STANDARD REQUIRES US TO FORWARD A MSDS PRIOR TO OR ACCOMPANYING AN INITIAL SHIPMENT OF A PRODUCT AND THE "STANDARD" REQUIRES YOUR COMPANY TO KEEP THE MSDS ON FILE. * * IF YOU ARE NOT RESPONSIBLE FOR HEALTH AND SAFETY IN YOUR COMPANY PLEASE INSURE THAT YOUR HEALTH AND SAFETY MANAGER RECEIVES THIS DOCUMENT.

*

THANK YOU.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS)

HEALTH ---->1

FLAMMABILITY ---->0

REACTIVITY ---->0

PERSONAL PROTECTION -->E

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SECTION I - PR	ODUCT INFORMATIO	۸: 						
PRODUCT DESCRI		SUNG 1650 004.000% 7857 E	ETGE					
PRODUCT CODE:	SB8275450			• E/07/*	1 2			
CHEMICAL NAME/	FAMILY:	ICS RESIN(S) + COLORANT	Z DAIE	• 5/2//.	13			
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SECTION III -		L CHARACTERISTICS:						
	SPECIFIC VAPOR P MELTIN VAPOR I EVAPORATI SOLUBILITY IJ	G POINT: N.A. GRAVITY: 3.8 - 4.3 RESSURE: N.A. G POINT: Non Determined DENSITY: N.A. DN RATE: N.A. N WATER: INSOLUBLE ND ODOR: COLORED PLASTIC	PELLET - N	D SIGNIF:	ICANT ODO	R		

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SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS: (CONT)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT (METHOD USED):

THERE IS A COMPONENT IN THIS PRODUCT WITH A FLASH POINT OF 254 C. THE METHOD USED TO DETERMINE THIS IS: 490-530F (ASTM-D 1929-77) ALL OTHER COMPONENTS USED IN THIS PRODUCT EITHER HAVE A HIGHER FLASH POINT OR ARE NOT COMBUSTIBLE AND DO NOT HAVE A FLASH POINT.

EXTINGUISHING MEDIA:

USE WATER FOG, FOAM OR DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES: BURNING WILL PRODUCE TOXIC FUMES. WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL TURNOUT GEAR TO FIGHT FIRES.

UNUSUAL FIRE AND EXPLOSION HAZARDS: AVOID DUST FORMATION AND CONTROL IGNITION SOURCES: EMPLOY GROUNDING, VENTING AND EXPLOSION RELIEF PROVISIONS. EMPTY ONLY INTO INERT OR NON-FLAMMABLE ATMOSPHERE.

SECTION V - REACTIVITY DATA:

STABILITY: STABLE -> X UNSTABLE ->

STABILITY (CONDITIONS TO AVOID): NONE

INCOMPATILBILITY (MATERIALS TO AVOID): AVOID CONTACT WITH STRONG ALKALI, AMINES.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE HAZARDOUS FUMES OF TITANIUM OXIDE.

HAZARDOUS POLYMERIZATION: WILL OCCUR -> WILL NOT OCCUR -> X

HAZARDOUS POLYMERIZATION (CONDITIONS TO AVOID):

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SECTION V - REACTIVITY DATA: (CONT)

SMOKING, OPEN FLAMES, SPARKS AND OTHER SOURCES OF IGNITION AND HEAT.

SECTION VI - HEALTH HAZARD DATA:

HEALTH HAZARDS (ACUTE AND CHRONIC):

HEALTH HAZARD: INHALATION

SHORT TERM OVEREXPOSURE BY IHALATION TO TITANIUM DIOXIDE MAY CAUSE IRRITATION OF NOSE, THROAT, AND LUNGS WITH COUGH, DIFFICULTY BREATHING OR SHORTNESS OF BREATH. STUDIES SHOWED THAT EMPLOYEES WHO HAD BEEN EXPOSED TO TITANIUM DIOXIDE WERE AT NO GREATER RISK OF DEVELOPING LUNG CANCER THAN WERE EMPLOYEES WHO HAD NOT BEEN EXPOSED TO TITANIUM DIOXIDE. INHALATION OF AMORPHOUS SILICA MAY CAUSE DRYING OF MUCOUS MEMBRANES AND IRRITATION OF NOSE, THROAT, AND LUNGS WITH NOSEBLEEDS, COUGH AND DIFFICULTY BREATHING OR SHORTNESS OF BREATH.

HEALTH HAZARD: SKIN MAY CAUSE IRRITATION TO SKIN

- HEALTH HAZARD: INGESTION INGESTION MAY RESULT IN GASTRIC DISTURBANCES
- HEALTH HAZARD: EYE CONTACT CONTACT WITH EYE MAY CAUSE EYE IRRITATION

IS ANY CHEMICAL IN THIS PRODUCT AT A CONCENTRATION OF 0.1 % OR MORE CLASSIFIED AS A CARCINOGEN BY IARC, NTP, OR OSHA? YES

SIGNS AND SYMPTOMS OF EXPOSURE:

STYRENE MONOMER (CAS# 100-42-5): MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. INGESTION MAY CAUSE GASTRIC DISTURBANCES.

CHROME ANTIMONY TITANIUM RUTILE: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED INHALATION MAY CAUSE LUNG DAMAGE.

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SECTION VI - HEALTH HAZARD DATA: (CONT)

PIGMENT YELLOW 164: MAY CAUSE EYE, SKIN, AND RESPIRATORY TRACT IRRITATION. ROUTES OF ENTRY: INGESTION, INHALATION.

COPPER CHROMITE: OVEREXPOSURE MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

TITANIUM DIOXIDE, ALUMINUM OXIDE: IARC HAS LISTED TITANIUM DIOXIDE AS GROUP 2(B) POSSIBLE CARCINOGENIC TO HUMANS. EXPOSURE TO DUST MAY CAUSE TEMPORARY DRYING EFFECT AND /OR MILD IRRITATION OF THE NOSE, THROAT, AND LUNGS AND MAY AGGRAVATE PRE-EXISTING CONDITIONS.

ANTIOXIDANT: LIVER AND THYROID DAMAGE BASED UPON THE PREVIOUSLEY CITED FEEDING STUDIES.

STYRENE MONOMER (CAS# 100-42-5) MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. INGESTION MAY CAUSE GASTRIC DISTURBANCES.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

STYRENE MONOMER (CAS# 100-42-5): NONE NOTED

CHROME ANTIMONY TITANIUM RUTILE: RESPIRATORY AND SKIN DISORDERS AGGRAVATED BY DUST.

PIGMENT YELLOW 164: SKIN AND RESPIRATORY DISORDERS.

COPPER CHROMITE: RESPIRATORY AND SKIN DISORDERS AGGRAVATED BY DUST.

TITANIUM DIOXIDE, ALUMINUM OXIDE: TITANIUM DIOXIDE LISTED BY IARC AS GROUP 2(B) POSSIBLE CARCINOGENIC TO HUMANS. ALUMINUM OXIDE (RESPIRATORY DISORDERS)

ANTIOXIDANT: LIVER DISEASE AND JAUDICE: THYROID CONDITIONS

EMERGENCY FIRST AID: INHALATION

REMOVE FROM AREA TO FRESH AIR. GET MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

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SECTION VI - HEALTH HAZARD DATA: (CONT)

EMERGENCY FIRST AID: SKIN

REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH WITH SOAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (AT LEAST 15 - 20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

EMERGENCY FIRST AID: INGESTION IF SWALLOWED, ADMINISTER AT LEAST 3-4 GLASSES OF WATER BUT DO NOT INDUCE VOMITING OR GIVE WATER TO UNCONSCIOUS OR CONVULSING PERSON. SEEK MEDICAL ATTENTION.

EMERGENCY FIRST AID: EYE CONTACT WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE, OCCASIONALLY LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS (AT LEAST 15 - 20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE:

HANDLING: SPILLAGE

SPILLS SHOULD BE PLACED IN SUITABLE CONTAINERS FOR DISPOSAL IN A LICENSED FACILITY. WEAR APPROPRIATE RESPRITORY PROTECTION AND PROTECTIVE CLOTHING AND PROVIDE ADEQUATE VENTILATION DURING CLEAN-UP.

HANDLING: WASTE DISPOSAL

DISPOSE OF IN AN APPROVED HAZARDOUS WASTE LANDFILL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

HANDLING: STORAGE

AVOID GENERATING DUST. AVOID CONTACT WITH EYES, SKIN, OR CLOTHING. WASH THOROUGHLY AFTER HANDLING. STORE IN A DRY WELL VENTILATED AREA. KEEP CONTAINER TIGHTLY CLOSED.

HANDLING: OTHER PRECAUTIONS

IN ACCORDANCE WITH GOOD MANUFACTURING PRACTICES, GOOD GENERAL VENTILATION OF THE POLYMER PROCESSING AREA IS RECOMMENDED.

SECTION VIII - CONTROL MEASURES:

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SECTION VIII - CONTROL MEASURES:

CONTROL: RESPIRATORY PROTECTION USE NIOSH APPROVED RESPIRATOR FOR ORGANIC VAPORS

- CONTROL: VENTILATION PROVIDE AN ADEQUATE EXHAUST SYSTEM THAT IS FILTERED TO AVOID CONTAMINATING THE ENVIRONMENT AND MEETS THE TLV REQUIREMENTS IN THE WORK AREA.
- CONTROL: GLOVES

BUTYL RUBBER, PVC OR NEOPRENE

- CONTROL: EYE PROTECTION GOGGLES
- CONTROL: OTHER CLOTHING EYE WASH STATION.
- CONTROL: WORK/HYGIENE DO NOT EAT, DRINK, OR SMOKE IN WORK AREAS. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING.

SECTION IX - OTHER REGULATORY INFORMATION:

S.	REPORTING AMENDMENTS	OF SECTION AND REAUTH	ORIZATION ACT OF 1986 AND 40 CFR PART 372:
	THIS INFORM	ATION SHOU	LD BE INCLUDED IN ALL MSDS'S THAT ARE COPIED
	AND DISTRIE	SUTED FOR T	HIS MATERIAL.
		DOES NOT	
	CAS #	EXCEED(%)	DESCRIPTION
	100-42-5	.12	STYRENE
	CRCMPD	3.85	CHROMIUM (III) COMPOUND
	SBCMPD	3.90	ANTIMONY COMPOUND
	7440-36-0	.45	ANTIMONY (SB) METAL
	7440-47-3	.41	CHROMIUM (III) AS (CR)
	MNCMPD	.69	MANGANESE COMPOUND
	7439-96-5	.03	MANGANESE (MN)
	CUCMPD	.64	COPPER COMPOUND
	7440-50-8	.19	COPPER (DUST)

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SECTION IX - OTHER REGULATORY INFORMATION: (CONT)

REACH REGULATION - THE SVHC REPORTED IN THE PROPOSED LIST FOR INCLUSION IN ANNEX XIV (ART 59.4) AND ACCORDING TO OUR KNOWLEDGE AND THE REACH REGULATION ITSELF. DETAILS ABOUT SVHC CONTAINED IN OUR MASTERBATCH DIVISION PRODUCTS ARE HEREUNDER REPORTED AS OF FEBRUARY 2010. DOES NOT

CAS # EXCEED(%) DESCRIPTION

NONE

TSCA - ALL INGREDIENTS USED TO PRODUCE THE ABOVE FORMULATION ARE IN COMPLIANCE WITH THE TOXIC SUBSTANCES AND CONTROL ACT INVENTORY AS REQUIRED BY FEDERAL LAW.

SECTION X - STATE REGULATORY INFORMATION:

______ CA PROPOSITION 65: WARNING - ANY COMPONENT OF THIS PRODUCT WHICH CONTAINS MATERIALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER ARE LISTED BELOW: STYRENE, ACRYLONITRILE LEAD HEXAVALENT CHROMIUM LEAD-10PPM, MERCURY-<0.3PPM, CHROMIUM-43%, CADMIUM-<10PPM: CA PROPOSITION 65: WARNING - ANY COMPONENT OF THIS PRODUCT WHICH CONTAINS MATERIALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM ARE LISTED BELOW: LEAD HEXAVALENT CHROMIUM LEAD-10PPM, MERCURY-<0.3PPM, CHROMIUM-43%, CADMIUM-<10PPM: STYRENE CANADIAN WHMIS: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL AS GIVEN IN WHMIS IS SHOWN BELOW: CLASS D DIV. 2B TITANIUM DIOXIDE: D2A VERY TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS FLORIDA: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL

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SECTION X - STATE REGULATORY INFORMATION: (CONT) CHEMICAL AS LISTED IN THE FLORIDA IS SHOWN BELOW: NONE MASSACHUSETTS: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL CHEMICAL AS LISTED IN THE MASSACHUSETTS SUBSTANCE LIST IS SHOWN BELOW: NONE NEW JERSEY: NON-HAZARDOUS INGREDIENTS ARE BEING WITH HELD AS TRADE SECRET INFORMATION. ANY COMPONENT OF THIS PRODUCT WHICH IS A

HAZARDOUS CHEMICAL AS LISTED ON THE NEW JERSEY HAZARDOUS LIST IS GIVEN IN SECTION II OF THIS MSDS. ANY LISTED CHEMICALS NOT SHOWN IN SECTION II ARE AS FOLLOWS: OCTADECANNAMIDE, N,N'-1,2-ETHANEDDIYLBIS- CAS# 000110-30-5 HEXADECANNAMIDE, N,N'-1,2-ETHANEDDIYLBIS- CAS# 005518-18-3

PENNSYLVANIA: NON-HAZARDOUS INGREDIENTS ARE BEING WITH HELD AS TRADE SECRET INFORMATION. ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL AS LISTED ON THE PENNSYLVANIA HAZARDOUS LIST IS GIVEN IN SECTION II OF THIS MSDS. ANY LISTED CHEMICALS NOT SHOWN IN SECTION II ARE AS FOLLOWS:

NONE

RHODE ISLAND:ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL CHEMICAL AS LISTED IN THE RHODE ISLAND SUBSTANCE LIST IS SHOWN IN SECTION II OF THIS MSDS. ANY LISTED CHEMICALS NOT SHOWN IN SECTION II ARE AS FOLLOWS: NONE

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