----- DATE: 4/28/16
MATERIAL SAFETY DATA SHEET PAGE: 1

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CLARIANT PLASTICS & COATING CANADA, INC. MASTERBATCHES

2 LONE OAK COURT

TORONTO ONTARIO M9C 5R9

PHONE: 416-847-7000

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

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

PRODUCT DESCRIPTION: PVC NATURAL 8245 004.000% DWT2145 BEIGE

PRODUCT CODE: CV82754993

***** 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 ---->1

REACTIVITY ---->0

PERSONAL PROTECTION -->E

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SECTION I - PRODUCT INFORMATION:

PRODUCT DESCRIPTION:

PVC NATURAL 8245 004.000% DWT2145 BEIGE

PRODUCT CODE:

CV82754993 VERSION NUMBER: 4 DATE: 4/28/16

CHEMICAL NAME/FAMILY:

THERMOPLASTICS RESIN(S) + COLORANT

CECTION II _ UX7XDDOIG INCDEDIENTS/IDENTITY INFODMATION:

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION:

THIS PRODUCT CONTAINS, AS A COMPONENT, THE SUBSTANCE(S) LISTED BELOW WHICH IS IDENTIFIED AS A HAZARDOUS CHEMICAL UNDER THE CRITERIA OF THE OSHA HAZARD COMMUNICATION STANDARD 29CFR1910.1200

OSHA HAZARD COMMUNICATION STANDARD 29CFR 1910.1200 OSHA HAZARD COMMUNICATION STANDARD 29CFR 1910.1200. OSHA ACGIH

CAS		\mathtt{PEL}	${ t TLV}$	OTHER	DOES NOT
NUMBER	DESCRIPTION	MG/M3	MG/M3	LIMITS	EXCEED(%)
68186-90-3	CHROME ANTIMONY TITANIUM	_	_	_	.80
CRCMPD	CHROMIUM (III) COMPOUND	0.5	0.5	_	.80
SBCMPD	ANTIMONY & COMPOUNDS (AS S	B) 0.5	0.5	_	.80
7440-47-3	CHROMIUM AS CR	0.5	0.5	_	.04
7440-36-0	ANTIMONY (SB) METAL	0.5	0.5	_	.10
68412-38-4	C.I. PIGMENT YELLOW 164				.40
68186-91-4	COPPER CHROMITE SPINEL	N.E.	N.E.	_	.35
13463-67-7	TITANIUM DIOXIDE (DUST)	10.0	10.0	_	40.00
1344-28-1	ALUMINUM OXIDE (DUST)	10.0	10.0	5.0	.40
75-01-4	VINYL CHLORIDE MONOMER	1 PPM	5PPM	0.5PPM	

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS:

BOILING POINT: N/A
SPECIFIC GRAVITY: 1.35-1.55

VAPOR PRESSURE: N/A

MELTING POINT: Non Determined

VAPOR DENSITY: N/A EVAPORATION RATE: N/A SOLUBILITY IN WATER: SLIGHT

APPEARANCE AND ODOR: COLORED PLASTIC PELLET - NO SIGNIFICANT ODOR

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT (METHOD USED):

THERE IS A COMPONENT IN THIS PRODUCT WITH A FLASH POINT OF 391 C. THE METHOD USED TO DETERMINE THIS IS: EXTERNAL PILOT FLAME 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:

DENSE BLACK SMOKE EMITTED WHEN BURNED WITHOUT SUFFICIENT OXYGEN. TOXIC FUMES ARE RELEASED IN FIRE SITUATIONS

SECTION V - REACTIVITY DATA:

STABILITY: STABLE -> X UNSTABLE ->

STABILITY (CONDITIONS TO AVOID):

INCOMPATILBILITY (MATERIALS TO AVOID):

DURING PROCESSING, AVOID ACETAL/ACETAL COPOLYMERS AND 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):

N/A

SECTION VI - HEALTH HAZARD DATA:

------DATE: 4/28/16
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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

ACUTE: PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

HARMFUL IF ABSORBED THROUGH SKIN.

CHRONIC: REPEATED EXPOSURE MAY CAUSE ALLERGIC SKIN RASH, ITCHING, SWELLING.

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:

CHROME ANTIMONY TITANIUM: REPEATED OVEREXPOSURE TO THIS COMPOUND MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

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.

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SECTION VI - HEALTH HAZARD DATA: (CONT)

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.

DUST MAY CAUSE IRRITATION OF THE NOSE, LUNGS AND THROAT. FUMES RELEASED DURING PROCESSING MAY CAUSE IRRITATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

CHROME ANTIMONY TITANIUM: RESPIRATORY AND SKIN DISORDERS.

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)

NONE KNOWN

EMERGENCY FIRST AID: INHALATION

REMOVE TO UNCONTAMINATED AREA. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK MEDICAL ATTENTION

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

FOR EXCESSIVE INGESTION DRINK WATER OR MILK. CALL A PHYSICIAN

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

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SECTION VI - HEALTH HAZARD DATA: (CONT)

DECITOR VI HEADIN HADARD DATA (CONT)

REMAINS (AT LEAST 15 - 20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE:

HANDLING: SPILLAGE

DIKE AND ABSORB SPILL WITH AN INERT MATERIAL SUCH AS SAND, OR EARTH AND

TRANSFER TO A SUITABLE CONTAINER FOR DISPOSAL.

HANDLING: WASTE DISPOSAL

INCINERATE OR BURY IN A LICENSED FACILITY. DO NOT DISCHARGE INTO

WATERWAYS OR SEWER WITHOUT PROPER AUTHORITY.

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

USE UNDER WELL-VENTILATED CONDITIONS AND RECOMMEND THAT EMPLOYEES WASH

THOROUGHLY AFTER HANDLING PRODUCT.

SECTION VIII - CONTROL MEASURES:

CONTROL: RESPIRATORY PROTECTION

NIOSH/MSHA APPROVED ORGANIC VAPOR CARTRIDGE RESPIRATOR MAY BE NEEDED WHEN

HANDLING MOLTEN MATERIAL.

CONTROL: VENTILATION

PROVIDE AN ADEOUATE EXHAUST SYSTEM THAT IS FILTERED TO AVOID CONTAMINATING

THE ENVIRONMENT AND MEETS THE TLV REQUIREMENTS IN THE WORK AREA.

CONTROL: GLOVES

LEATHER OR OTHER NON-PERMEABLE GLOVES.

CONTROL: EYE PROTECTION

GOGGLES

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SECTION VIII - CONTROL MEASURES: (CONT)

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:

SARA - THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372: THIS INFORMATION SHOULD BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL. DOES MOT

	DOES NOT			
CAS #	EXCEED(%)	DESCRIPTION		
CRCMPD	1.15	CHROMIUM (III) COMPOUND		
7440-47-3	.19	CHROMIUM (III) AS (CR)		
SBCMPD	1.20	ANTIMONY COMPOUND		
7440-36-0	.18	ANTIMONY (SB) METAL		
MNCMPD	.40	MANGANESE COMPOUND		
7439-96-5	.02	MANGANESE (MN)		
CUCMPD	.35	COPPER COMPOUND		
7440-50-8	.11	COPPER (DUST)		

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:

PLEASE NOTE IT IS THE RESPONSIBILITY OF THE END USER TO DETERMINE IF ITS FINISHED PRODUCTS REQUIRE LABELING UNDER CALIFORNIA PROPOSITION 65. HTTP://WWW.OEHHA.CA.GOV/PROP65/PROP65_LIST/NEWLIST.HTML

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SECTION X - STATE REGULATORY INFORMATION: (CONT)

LEAD <50PPM

HEXAVALENT CHROMIUM <10PPM

LEAD-10PPM, MERCURY-<0.3PPM, CHROMIUM-43%, CADMIUM-<10PPM:

HEXAVALENT CHROMIUM 100PPM

CA PROPOSITION 65: WARNING - ANY COMPONENT OF THIS PRODUCT WHICH CONTAINS
MATERIALS KNOWN TO THE STATE OF CALIFORNIA TO
CAUSE DEVELOPMENTAL AND REPRODUCTIVE TOXICANT

HARM ARE LISTED BELOW:

PLEASE NOTE IT IS THE RESPONSIBILITY OF THE END USER TO DETERMINE IF ITS FINISHED PRODUCTS REQUIRE LABELING UNDER CALIFORNIA PROPOSITION 65. HTTP://www.oehha.ca.gov/prop65/prop65 LIST/NEWLIST.HTML

LEAD <50PPM

HEXAVALENT CHROMIUM <10PPM

LEAD-10PPM, MERCURY-<0.3PPM, CHROMIUM-43%, CADMIUM-<10PPM:

CANADIAN WHMIS: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL AS GIVEN IN WHMIS IS SHOWN BELOW:

HTTP://WWW.CSST.QC.CA/EN/PREVENTION/REPTOX/PAGES/LIST-WHMIS-CAS-50-84.ASPX 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 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:

NONE

PENNSYLVANIA: NON-HAZARDOUS INGREDIENTS ARE BEING WITH HELD AS TRADE SECRET

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SECTION X - STATE REGULATORY INFORMATION: (CONT)

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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