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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

*

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

PRODUCT DESCRIPTION: ABS GP35 004.000% #2114 LT.BEIGE PRODUCT CODE: 06ABS-293

***** 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 -->B

SHIPPED FROM:	ATERIAL SAFETY DATA SHEET	DATE: 11/24/14 PAGE: 2	
TORONTO MASTERBA 2 LONE OAK COURT	NTARIO M9C 5R9		
FOR ALL EMERGENCIES 269-753-8 PREPARED BY: PRODUCT SAFETY DEP			
	CLARIANT WEBSITE: HTTP:\\WWW.CLARIANTM	ASTERBATCH.COM	
PRODUCT DESCRIPTION: ABS GP35 0 PRODUCT CODE: 06ABS-293	04.000% #2114 LT.BEIGE		
SECTION I - PRODUCT INFORMATION:			
PRODUCT DESCRIPTION:			
PRODUCT CODE:	04.000% #2114 LT.BEIGE		
06ABS-293 CHEMICAL NAME/FAMILY:	VERSION NUMBER: 2 DATE: 11/24/14		
THERMOPLASTICS RESIN(S) + COLORANT			
SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION:			
THIS PRODUC WHICH IS ID OSHA HAZARD OSHA HAZARD OSHA HAZARD CAS NUMBER 100-42-5 68186-90-3 CRCMPD SBCMPD 7440-36-0 7440-47-3 68412-38-4 68186-91-4 13463-67-7 1344-28-1 1317-65-3 14808-60-7	T CONTAINS, AS A COMPONENT, THE SUBSTANCE(S) LISTED BEL ENTIFIED AS A HAZARDOUS CHEMICAL UNDER THE CRITERIA OF COMMUNICATION STANDARD 29CFR1910.1200 COMMUNICATION STANDARD 29CFR1910.1200. OSHA ACGIH PEL TLV OTHER DO DESCRIPTION MG/M3 MG/M3 LIMITS EX STYRENE 100PPM CHROME ANTIMONY TITANIUM CHROMIUM (III) COMPOUND 0.5 0.5 - ANTIMONY & COMPOUNDS(AS SB) 0.5 0.5 - ANTIMONY (SB) METAL 0.5 0.5 - C.I. PIGMENT YELLOW 164 COPPER CHROMITE SPINEL N.E. N.E TITANIUM DIOXIDE (DUST) 10.0 10.0 - ALUMINUM OXIDE (DUST) 10.0 10.0 5.0 LIMESTONE (TOTAL DUST) 15.0 10.0 5.0 SILICA, CRYSTALLINE QUARTZ 0.1 0.1 -	THE	
BOILING SPECIFIC G VAPOR PR MELTING VAPOR D EVAPORATIO	POINT: NA RAVITY: 1.05 ESSURE: NA POINT: Non Determined ENSITY: NA		

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_____ SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS: (CONT) _____ APPEARANCE AND ODOR: COLORED PLASTIC PELLET - NO SIGNIFICANT ODOR _____ SECTION IV - FIRE AND EXPLOSION HAZARD DATA: _____ FLASH POINT (METHOD USED): THERE IS A COMPONENT IN THIS PRODUCT WITH A FLASH POINT OF 285 C. THE METHOD USED TO DETERMINE THIS IS: COC 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): NONE INCOMPATILBILITY (MATERIALS TO AVOID): STRONG ACIDS 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)

HEATING ABOVE 340 C.

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.

CALCIUM CARBONATE: IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN. MAY IRRITATE EYE TISSUE. MAY CAUSE IRRITATION OF THROAT, STOMACH AND GASTROINTESTINAL TRACT. SILICA: LONG TERM EXPOSURE MAY CAUSE SILICOSIS A FORM OF PULMONARY FIBROSIS. CONSIDERED TO BE CLASSIFIED AS CARCINOGENIC BY IARC.

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)

CALCIUM CARBONATE: NONE KNOWN

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

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

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

IN DUSTY ATMOSPHERES USE NIOSH/MSHA APPROVED RESPIRATORS

CONTROL: VENTILATION

USE ONLY WITH ADEQUATE VENTILATION AND DUST CONTAINMENT.

CONTROL: GLOVES

BUTYL RUBBER, PVC OR NEOPRENE

- CONTROL: EYE PROTECTION GOGGLES
- CONTROL: OTHER CLOTHING EYE WASH STATION.
- CONTROL: WORK/HYGIENE

OBSERVE PROPER INDUSTRIAL HYGIENIC PRACTICES ACCORDING TO REGULATIONS.

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 NOT CAS # EXCEED(%) DESCRIPTION 100-42-5 11 STYPENE

.11	STYRENE
2.76	CHROMIUM (III) COMPOUND
2.87	ANTIMONY COMPOUND
.31	ANTIMONY (SB) METAL
.16	CHROMIUM (III) AS (CR)
.25	MANGANESE COMPOUND
.01	MANGANESE (MN)
.14	COPPER COMPOUND
.04	COPPER (DUST)
	2.76 2.87 .31 .16 .25 .01 .14

TSCA - ALL INGREDIENTS USED TO PRODUCE THE ABOVE FORMULATION ARE IN

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_____ SECTION IX - OTHER REGULATORY INFORMATION: (CONT) _____ 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 STYRENE, ACRYLONITRILE LEAD HEXAVALENT CHROMIUM LEAD-10PPM, MERCURY-<0.3PPM, CHROMIUM-43% , CADMIUM-<10PPM: CRYSTALLINE SILICA CAS# 1317-65-3 0.4% LEAD <1.0PPM 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 REOUIRE LABELING UNDER CALIFORNIA PROPOSITION 65. HTTP://WWW.OEHHA.CA.GOV/PROP65/PROP65 LIST/NEWLIST.HTML LEAD HEXAVALENT CHROMIUM 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 QUARTZ - CLASS D, DIVISION 2, SUBDIVISION A FLORIDA: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL CHEMICAL AS LISTED IN THE FLORIDA IS SHOWN BELOW:

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SECTION X - STATE REGULATORY INFORMATION: (CONT)

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 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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