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

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

PRODUCT DESCRIPTION: ABS ABS 004.000% STOCK YELLOW PRODUCT CODE: SB13754412

#### \*\*\*\*\* 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

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CLARIANT WEBSITE: HTTP:\\WWW.CLARIANTMASTERBATCH.COM PRODUCT DESCRIPTION: ABS ABS 004.000% STOCK YELLOW PRODUCT CODE: SB13754412	
SECTION I - PRODUCT INFORMATION:	
PRODUCT DESCRIPTION: ABS ABS 004.000% STOCK YELLOW PRODUCT CODE: SB13754412 VERSION NUMBER: 5 DATE: 11/24/14 CHEMICAL NAME/FAMILY: THERMOPLASTICS RESIN(S) + COLORANT SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION:	
THE FOLLOWING INFORMATION PROVIDED ON THE BELOW HAZARDOUS PIGMENT(S) AND ADDITIVE(S) APPLIES TO THEM IN THE PURE DRY FORM. THE FORM OF THE PIGMENT AND ADDITIVE PROVIDED TO YOU IS ENCAPSULATED IN PLASTIC, AND THEREFORE, THE LIKELIHOOD OF EXPOSURE IS MUCH LESS, EVEN TO THE POINT OF NEGLIGIBLE. WE THEREFORE CONSIDER THE LEVEL OF HAZARD TO BE NEGLIGIBLE.   OSHA ACGIH   CAS   NUMBER DESCRIPTION MG/M3 MG/M3 LIMITS EXCEED(%)   100-42-5 STYRENE   1000PPM -   0.8   68186-90-3 CHROME ANTIMONY TITANIUM -   -   0.8   0.8   0.8   0.5   3.00   SECMED   0.5   3.00   7440-47-3   CHROMIUM AS CR   0.5 - <t< td=""><td></td></t<>	
SPECIFIC GRAVITY: 1.05 VAPOR PRESSURE: NA MELTING POINT: Non Determined VAPOR DENSITY: NA EVAPORATION RATE: NA SOLUBILITY IN WATER: INSOLUBLE	

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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: WATER SPRAY, FOAM, CARBON DIOXIDE, OR DRY CHEMICAL SPECIAL FIRE FIGHTING PROCEDURES: APPROVED PRESSURE DEMAND BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE USED FOR ALL FIRES. USE EXTINGUISHING WATER STREAM CAREFULLY TO AVOID CREATING DUST CLOUDS. UNUSUAL FIRE AND EXPLOSION HAZARDS: HAZARDOUS COMBUSTION PRODUCTS MAY INCLUDE INTENSE HEAT, DENSE BLACK SMOKE, CARBON MONOXIDE, HYDROGEN CYANIDE, HYDROCARBON FRAGMENTS AND CARBON DIOXIDE. \_\_\_\_\_ SECTION V - REACTIVITY DATA: \_\_\_\_\_ \_\_\_\_\_ STABILITY: STABLE -> X UNSTABLE -> STABILITY (CONDITIONS TO AVOID): AVOID EXPOSURE TO HEAT, SPARK, OR OPEN FLAME. 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

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SECTION V - REACTIVITY DATA: (CONT)

HAZARDOUS POLYMERIZATION (CONDITIONS TO AVOID): AVOID CONTACT WITH STRONG CHEMICAL OXIDIZING AGENTS.

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 THIS PRODUCT IS NOT EXPECTED TO BE TOXIC BY INGESTION. LARGE QUANTITIES OF MATERIALS INGESTED MAY CAUSE DISCOMFORT OR OBSTRUCTION OF THE DIGESTIVE SYSTEMS.

HEALTH HAZARD: EYE CONTACT SOLID OR DUST MAY CAUSE IRRITATION OR CORNEAL INJURY DUE TO MECHNICAL ACTIONS.

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

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SECTION VI - HEALTH HAZARD DATA: (CONT)

IRRITATION. INGESTION MAY CAUSE GASTRIC DISTURBANCES.

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

AMOROPHOUS SILICA: OVEREXPOSURE MAY CAUSE TISSUE RESPONSE IN THE LUNG WHICH IN SEVERE CASES CAN RESULT IN PULMONARY FIBROSIS (PNEUMOCONIOSIS). TITANIUM DIOXIDE: MAY CAUSE MECHANICAL EYE IRRITATION. LONG TERM EXPOSURE TO AIRBORNE DUST MAY CAUSE LUNG DAMAGE.

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.

AMOROPHOUS SILICA: NONE KNOWN TITANIUM DIOXIDE: NONE KNOWN

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.

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

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SECTION VI - HEALTH HAZARD DATA: (CONT)

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

WEARING APPROPRIATE PERSONNEL PROTECTIVE EQUIPMENT, CONTAIN SPILL, COLLECT IN A SUITABLE CONTAINER.

HANDLING: WASTE DISPOSAL

RECYCLING, INCINERATION WITH ENERGY RECOVERY, OR LANDFILL IN ACCORDANCE WITH APPLICABLE REGULATIONS AND LAWS.

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.

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SECTION VIII - CONTROL MEASURES:

CONTROL: RESPIRATORY PROTECTION

IN DUSTY ATMOSPHERES USE NIOSH/MSHA APPROVED RESPIRATORS

CONTROL: VENTILATION

LOCAL EXHAUST IS RECOMMENDED. APPROPRIATE PRECAUTIONS TO AVOID DUST EXPLOSIONS SHOULD BE TAKEN INCLUDING A PROPERLY GROUNDED DUST COLLECTION SYSTEM.

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SECTION VIII - CONTROL MEASURES: (CONT)

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CONTROL: GLOVES

BUTYL RUBBER, PVC OR NEOPRENE

- CONTROL: EYE PROTECTION GOGGLES
- CONTROL: OTHER CLOTHING EYE WASH STATION.

CA

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 EXCEED(%) DESCRIPTION CAS # .08 STYRENE 100-42-5 SBCMPD3.00CHROMIUM (III) COMP(<br/>ANTIMONY COMPOUND<br/>ANTIMONY (SB) METAL<br/>127440-47-3.12 3.00 CHROMIUM (III) COMPOUND .12 CHROMIUM (III) AS (CR) 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: \_\_\_\_\_

PROPOSITION	65:	WARNING	-	ANY	COMPOI	NENT	OF	THI	IS I	PRODUCI	r wi	HICH	CONTAIN	$^{1S}$	
				MATI	ERIALS	KNOV	VN 7	го т	ΉE	STATE	OF	CALI	FORNIA	TO	
				CAUS	SE CAN	CER A	ARE	LIS	STEI	) BELOV	₹:				

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\_\_\_\_\_ SECTION X - STATE REGULATORY INFORMATION: (CONT) \_\_\_\_\_ 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 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 REQUIRE LABELING UNDER CALIFORNIA PROPOSITION 65. HTTP://WWW.OEHHA.CA.GOV/PROP65/PROP65 LIST/NEWLIST.HTML LEAD HEXAVALENT CHROMIUM CANADIAN WHMIS: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL AS GIVEN IN WHMIS IS SHOWN BELOW: HTTP://WWW.CSST.OC.CA/EN/PREVENTION/REPTOX/PAGES/LIST-WHMIS-CAS-50-84.ASPX OUARTZ - CLASS D, DIVISION 2, SUBDIVISION A D2B STYRENE-ACRYLONITRILE COPOLYMER 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:

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SECTION X - STATE REGULATORY INFORMATION: (CONT)

OCTADECANNAMIDE, N,N'-1,2-ETHANEDDIYLBIS-HEXADECANNAMIDE, N,N'-1,2-ETHANEDDIYLBIS-CAS# 000110-30-5 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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