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4/10/06

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HOLDEN MA 01520
PHONE: 508-829-6321

EMERGENCY TELEPHONE: 888-247-5762

CLARIANT WEBSITE: [HTTP://WWW.CLARIANTMASTERBATCH.COM](http://www.clariantmasterbatch.com)

PRODUCT DESCRIPTION: ABS PA 717C
PRODUCT CODE: SB62620071

004 .000% SEAFOAM GREEN

***** 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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SECTION I - PRODUCT INFORMATION:

PRODUCT DESCRIPTION:

ABS PA 717C 004 .000% SEAFOAM GREEN

PRODUCT CODE:

SB62620071

VERSION NUMBER:

6 DATE: 4/06/06

CHEMICAL NAME/FAMILY:

THERMOPLASTICS RESIN(S) + COLORANT

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 29 CFR 1910.1200.

CAS NUMBER	DESCRIPTION	OSHA	ACGIH	OTHER LIMITS	DOES NOT EXCEED (%)
		PEL MG/M3	TLV MG/M3		
1309-37-1	IRON OXIDE (TOTAL DUST)	15.0	5.0	5.0	.40
7631-86-9	SILICON DIOXIDE, AMORPHOUS	6.0	10.0	-	.02
7727-43-7	BARIUM SULFATE (DUST)	5.0	10.0	-	.03
8007-18-9	NICKEL ANTIMONY TITANIUM	-	-	-	9.43
NICMPD	NICKEL COMPOUND (AS NI)	1.0	1.0	-	9.43
SBCMPD	ANTIMONY & COMPOUNDS (AS SB)	0.5	0.5	-	9.43
7440-36-0	ANTIMONY (SB) METAL	0.5	0.5	-	1.04
7440-02-0	NICKEL (AS NI)	1.0	0.1	-	.38
13463-67-7	TITANIUM DIOXIDE (DUST)	10.0	10.0	-	17.19
21645-51-2	ALUMINUM HYDROXIDE (AS AL)	N.E.	10.0	-	1.55
112926-00-8	SILICA, AMORPHOUS	6.0	10.0	-	1.89
110-30-5	ETHYLENE BISSTEARAMIDE	N.E.	N.E.	-	2.00
100-42-5	STYRENE	100PPM	20PPM	-	.08
471-34-1	CALCIUM CARBONATE	15.0	10.0	-	4.90
546-93-0	MAGNESIUM CARBONATE	5.0	10.0	N.E.	.10
14808-60-7	SILICA, CRYSTALLINE QUARTZ	0.1	0.1	-	.04

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS:

BOILING POINT: NA
SPECIFIC GRAVITY: >1
VAPOR PRESSURE: NEGLIGIBLE
MELTING POINT: SOFTENS GRADUALLY OVER A WIDE TEMP RANGE
VAPOR DENSITY: NA
EVAPORATION RATE: NEGLIGIBLE

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SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS: (CONT)

SOLUBILITY IN WATER: INSOLUBLE
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 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:

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.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS, MOISTURE.

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)

AVOID CONTACT WITH STRONG CHEMICAL OXIDIZING AGENTS.

SECTION VI - HEALTH HAZARD DATA:

HEALTH HAZARDS (ACUTE AND CHRONIC):

HEALTH HAZARD: INHALATION

SHORT TERM OVEREXPOSURE BY INHALATION 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 POWDERS OR DUSTS MAY CAUSE MECHANICAL IRRITATION. THERMAL PROCESSING FUMES/VAPORS MAY IRRITATE THE EYES.

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:

* THE FOLLOWING INFORMATION PROVIDED ON THE BELOW HAZARDOUS INGREDIENT(S) APPLIES TO THE INGREDIENT(S) IN THE PURE DRY FORM. THE FORM OF THE INGREDIENTS 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.

IRON OXIDE(CAS# 1309-37-1): EXPOSURE TO AIRBORNE DUST MAY REDUCE VISIBILITY

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SECTION VI - HEALTH HAZARD DATA: (CONT)

AND MAY CAUSE MECHANICAL IRRITATION TO THE EYES AND RESPIRATORY TRACT.
RIGOROUS SKIN CLEANING NECESSARY FOR REMOVAL OF DUST CAN CAUSE IRRITATION.
PROLONGED INHALATION OF IRON OXIDE FUME HAS BEEN REPORTED TO PRODUCE
CHANGES IN LUNG X-RAYS OF EXPOSED INDIVIDUALS. THIS CONDITION, SIDEROSIS,
IS CONSIDERED TO BE A BENIGN PNEUMOCONIOSIS THAT EXHIBITS NO ADVERSE HEALTH
EFFECTS.

NICKEL ANTIMONY TITANIUM: IRRITATION TO THE EYES, SKIN AND RESPIRATORY
TRACT.

TITANIUM DIOXIDE: MAY CAUSE MECHANICAL EYE IRRITATION. LONG TERM EXPOSURE
TO AIRBORNE DUST MAY CAUSE LUNG DAMAGE.

ETHYLENE BISSTEARAMIDE: MAY CAUSE IRRITATION OF EYES AND RESPIRATORY TRACT.
SKIN CONTACT WITH HOT OR MOLTEN MATERIAL MAY CAUSE THERMAL BURNS.

CALCIUM CARBONATE: MAY CAUSE EYE IRRITATION
CRYSTALLINE SILICA: IARC HAS CLASSIFIED THIS AS CARCINOGENIC TO HUMANS.
PROLONGED BREATHING OF EXCESSIVE DUST MAY EFFECT LUNG FUNCTION.

STYRENE MONOMER (CAS# 100-42-5) THIS MATERIAL CONTAINS TRACE LEVELS OF THIS
MATERIAL. THIS MATERIAL HAS PRODUCED VARIOUS CONDITIONS IN LABORATORY
ANIMALS. HOWEVER, NUMEROUS EPIDEMIOLOGICAL STUDIES OF STYRENE WORKERS HAVE
BEEN CONDUCTED WHICH DO NOT INDICATE CARCINOGENIC EFFECTS.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

* THE FOLLOWING INFORMATION PROVIDED ON THE BELOW HAZARDOUS INGREDIENT(S)
APPLIES TO THE INGREDIENT(S) IN THE PURE DRY FORM. THE FORM OF THE
INGREDIENT(S) 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.

IRON OXIDE(CAS# 1309-37-1): PERSONS WITH PREEXISTING EYE OR SKIN CONDITIONS
OR IMPAIRED PULMONARY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF
THIS PRODUCT.

NICKEL ANTIMONY TITANIUM: RESPIRATORY AND SKIN DISORDERS AGGRAVATED BY
DUST.

TITANIUM DIOXIDE: NONE KNOWN

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SECTION VI - HEALTH HAZARD DATA: (CONT)

ETHYLENE BISSTEARAMIDE: NONE KNOWN

CALCIUM CARBONATE: NONE KNOWN

STYRENE MONOMER (CAS#100-42-5): NO DATA IS AVAILABLE

EMERGENCY FIRST AID: INHALATION

REMOVE TO CLEAN, FRESH AIR AND TREAT SYMPTOMATICALLY.

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 CONSCIOUS, GIVE WATER AND THEN INDUCE VOMITING. NEVER GIVE FLUIDS OR
INDUCE VOMITING IF THE VICTIM IS UNCONSCIOUS OR HAVING CONVULSIONS. GET
IMMEDIATE 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 RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING
AND PROVIDE ADEQUATE VENTILATION DURING CLEAN-UP.

HANDLING: WASTE DISPOSAL

DISPOSE IN CLOSED CONTAINERS. COMPLY WITH LOCAL, STATE, AND FEDERAL
REGULATIONS.

HANDLING: STORAGE

STORE BELOW 100 F TO AVOID MELTING.

HANDLING: OTHER PRECAUTIONS

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SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE: (CONT)

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

SECTION VIII - CONTROL MEASURES:

CONTROL: RESPIRATORY PROTECTION

NIOSH/MSHA APPROVED DUST RESPIRATOR RECOMMENDED IF THE AIRBORNE DUST CONCENTRATION IS NEAR OR EXCEEDS THE NUISANCE DUST EXPOSURE LIMITS. IF VENTILATION IS NOT SUFFICIENT TO CONTROL PROCESSING GASES AND FUMES, A NIOSH APPROVED RESPIRATOR SHOULD BE SELECTED AND WORN BASED ON THE CONTAMINATION LEVELS FOUND IN THE WORKPLACE.

CONTROL: VENTILATION

PROVIDE LOCAL EXHAUST VENTILATION. VENTILATION EQUIPMENT SHOULD BE EXPLOSION-PROOF IF EXPLOSIVE CONCENTRATIONS OF DUST, VAPOR OR FUME ARE PRESENT.

CONTROL: GLOVES

IMPERVIOUS GLOVES

CONTROL: EYE PROTECTION

SIDESHIELD SAFETY GLASSES

CONTROL: OTHER CLOTHING

TO PREVENT SKIN CONTACT WEAR SKIN PROTECTION, SUCH AS IMPERVIOUS GLOVES, APRON, WORKPANTS, LONG SLEEVE WORKSHIRT, OR DISPOSABLE COVERALLS.

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.
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SECTION IX - OTHER REGULATORY INFORMATION: (CONT)

CAS #	EXCEED (%)	DESCRIPTION
SBCMPD	9.43	ANTIMONY COMPOUND
NICMPD	9.43	NICKEL COMPOUND (AS NI)
7440-36-0	1.04	ANTIMONY (SB) METAL
7440-02-0	.38	NICKEL (AS PART OF DYE)
100-42-5	.08	STYRENE

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:

PCB'S UP TO 25 PPM
CALCIUM CARBONATE (CAS# 14808-60-7) 0.8%
ARSENIC < 5PPM
LEAD < 5PPM
CADMIUM
STYRENE MONOMER (CAS# 100-42-5) < 0.2%
ACRYLONITRILE < 100 PPM

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:

PCB'S UP TO 25 PPM
LEAD

CANADIAN WHMIS: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL AS GIVEN IN WHMIS IS SHOWN BELOW:
NONE

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

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SECTION X - STATE REGULATORY INFORMATION: (CONT)

CHEMICAL AS LISTED IN THE MASSACHUSETTS SUBSTANCE LIST IS
SHOWN BELOW:

ARSENIC CAS# 7440-38-2 90 PPM
NICKEL CAS# 7440-02-0 250 PPM
CHROMIUM CAS# 7440-47-3 1200 PPM
RANDOM SAMPLE ANALYSES.
IRON OXIDE CAS# 1309-37-1 60 TO 100%
BARIUM SULFATE CAS# 7727-43-7 3 TO 7%
AMORPHOUR SILICA CAS# 7631-86-9 1 TO 5%
100-42-5 STYRENE >0.2%

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:

IRON OXIDE CAS# 1309-37-1 60 TO 100%
BARIUM SULFATE CAS# 7727-43-7 3 TO 7%
AMORPHOUR SILICA CAS# 7631-86-9 1 TO 5%
100-42-5 STYRENE >0.2%

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:

IRON OXIDE CAS# 1309-37-1 60 TO 100%
BARIUM SULFATE CAS# 7727-43-7 3 TO 7%
AMORPHOUR SILICA CAS# 7631-86-9 1 TO 5%
100-42-5 STYRENE >0.2%

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
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IT IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED. CLARIANT
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UPON, THESE DATA FOR HAZARDS WHICH MIGHT BE ASSOCIATED WITH THE USE OF THIS
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TO COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS.