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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](http://www.clariantmasterbatch.com)

PRODUCT DESCRIPTION: ABS 010.000% POLAR WHITE 2022SW-B
PRODUCT CODE: SB02754407

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

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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 010.000% POLAR WHITE 2022SW-B

PRODUCT CODE:

SB02754407

VERSION NUMBER:

2

DATE: 1/16/15

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.

CAS NUMBER	DESCRIPTION	OSHA PEL MG/M3	ACGIH TLV MG/M3	OTHER LIMITS	DOES NOT EXCEED(%)
100-42-5	STYRENE	100PPM	-	-	.10
68186-90-3	CHROME ANTIMONY TITANIUM	-	-	-	.13
CRCMPD	CHROMIUM (III) COMPOUND	0.5	0.5	-	.13
SBCMPD	ANTIMONY & COMPOUNDS(AS SB)	0.5	0.5	-	.13
7440-36-0	ANTIMONY (SB) METAL	0.5	0.5	-	.01
7440-47-3	CHROMIUM AS CR	0.5	0.5	-	.01
68186-91-4	COPPER CHROMITE SPINEL	N.E.	N.E.	-	.04
13463-67-7	TITANIUM DIOXIDE (DUST)	10.0	10.0	-	45.00
1344-28-1	ALUMINUM OXIDE (DUST)	10.0	10.0	5.0	.45

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS:

BOILING POINT: NA
SPECIFIC GRAVITY: 1.05
VAPOR PRESSURE: NA
MELTING POINT: Non Determined
VAPOR DENSITY: NA
EVAPORATION RATE: NA
SOLUBILITY IN WATER: INSOLUBLE
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 193 C.
THE METHOD USED TO DETERMINE THIS IS: OPEN CUP
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:

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):

AVOID EXPOSURE TO HEAT, SPARK, OR OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID):

PROLONGED HEATING IN EXCESS OF 275 C ACCELERATES THERMAL DEGRADATION.

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):

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

SECTION VI - HEALTH HAZARD DATA:

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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 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.

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

TITANIUM DIOXIDE, ALUMINUM OXIDE: IARC HAS LISTED TITANIUM DIOXIDE AS

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SECTION VI - HEALTH HAZARD DATA: (CONT)

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.

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.

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)

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

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:

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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

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:

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.

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SECTION VIII - CONTROL MEASURES: (CONT)

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.

CAS #	DOES NOT EXCEED(%)	DESCRIPTION
100-42-5	.10	STYRENE
CRCMPD	.17	CHROMIUM (III) COMPOUND
SBCMPD	.13	ANTIMONY COMPOUND
7440-36-0	.01	ANTIMONY (SB) METAL
7440-47-3	.03	CHROMIUM (III) AS (CR)
CUCMPD	.04	COPPER COMPOUND
7440-50-8	.01	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](http://www.oehha.ca.gov/prop65/prop65_list/newlist.html)

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

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SECTION X - STATE REGULATORY INFORMATION: (CONT)

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](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](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:

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

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SECTION X - STATE REGULATORY INFORMATION: (CONT)

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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TO COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS.