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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% DCC 178H WHITE #2
PRODUCT CODE: SB02754428

***** 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 010.000% DCC 178H WHITE #2

PRODUCT CODE:

SB02754428

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 |
| 8007-18-9 | NICKEL ANTIMONY TITANIUM | - | - | - | .14 |
| NICMPD | NICKEL COMPOUND (AS NI) | 1.0 | 1.0 | - | .14 |
| SBCMPD | ANTIMONY & COMPOUNDS(AS SB) | 0.5 | 0.5 | - | .14 |
| 7440-36-0 | ANTIMONY (SB) METAL | 0.5 | 0.5 | - | .02 |
| 7440-02-0 | NICKEL (AS NI) | 1.0 | 0.1 | - | .01 |
| 68186-91-4 | COPPER CHROMITE SPINEL | N.E. | N.E. | - | .04 |
| 13463-67-7 | TITANIUM DIOXIDE (DUST) | 10.0 | 10.0 | - | 47.50 |
| 1344-28-1 | ALUMINUM OXIDE (DUST) | 10.0 | 10.0 | 5.0 | .48 |
| 1317-65-3 | LIMESTONE (TOTAL DUST) | 15.0 | 10.0 | 5.0 | .05 |
| 14808-60-7 | SILICA, CRYSTALLINE QUARTZ | 0.1 | 0.1 | - | ---- |
| 36443-68-2 | ANTIOXIDANT/STABILIZER | - | - | - | .30 |

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

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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 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:

AVOID DUST FORMATION AND CONTROL IGNITION SOURCES: EMPLOY GROUNDING,
VENTING AND EXPLOSION RELIEF PROVISIONS. EMPTY ONLY INTO INERT OR
NON-FLAMMABLE ATMOSPHERE.-----
SECTION V - REACTIVITY DATA:

STABILITY: STABLE -> X UNSTABLE ->

STABILITY (CONDITIONS TO AVOID):

AVOID EXPOSURE TO HEAT, SPARK, OR OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID):

ACIDS, FIRE.

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

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

AS WITH ALL POWDERS, MAY CAUSE MILD IRRITATION TO 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.

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SECTION VI - HEALTH HAZARD DATA: (CONT)

STYRENE MONOMER (CAS# 100-42-5): MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. INGESTION MAY CAUSE GASTRIC DISTURBANCES.

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

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.

ANTIOXIDANT: LIVER AND THYROID DAMAGE BASED UPON THE PREVIOUSLEY CITED FEEDING STUDIES.

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.

STYRENE MONOMER (CAS# 100-42-5): NONE NOTED

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

COPPER CHROMITE: RESPIRATORY AND SKIN DISORDERS AGGRAVATED BY DUST.

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SECTION VI - HEALTH HAZARD DATA: (CONT)

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

ANTIOXIDANT: LIVER DISEASE AND JAUDICE: THYROID CONDITIONS

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:

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.

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

HANDLING: STORAGE

STORE IN A DRY, WELL VENTILATED AREA. DO NOT STORE IN AREAS WHERE THERE IS
A RISK OF FIRE. DO NOT MIX OR STORE WITH ACIDS. AVOID EXCESSIVE DUST
GENERATION, USE APPROPRIATE DUST CONTROL MEASURES WHERE NECESSARY.

HANDLING: OTHER PRECAUTIONS

DO NOT FLUSH INTO SURFACE WATER OR SANITARY SEWER SYSTEMS. IN CASE OF
ACCIDENTAL MAJOR DISCHARGE INTO DRAINS, FLUSH WITH COPIOUS AMOUNTS OF WATER
TO DILUTE ANY ACIDIC CONDITIONS WHICH MAY PREVAIL.

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

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

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SECTION IX - OTHER REGULATORY INFORMATION: (CONT)

AND DISTRIBUTED FOR THIS MATERIAL.

| CAS # | DOES NOT EXCEED(%) | DESCRIPTION |
|-----------|-----------------------|-------------------------|
| 100-42-5 | .10 | STYRENE |
| SBCMPD | .14 | ANTIMONY COMPOUND |
| NICMPD | .14 | NICKEL COMPOUND (AS NI) |
| 7440-36-0 | .02 | ANTIMONY (SB) METAL |
| 7440-02-0 | .01 | NICKEL (AS PART OF DYE) |
| CRCMPD | .04 | CHROMIUM (III) COMPOUND |
| CUCMPD | .04 | COPPER COMPOUND |
| 7440-50-8 | .01 | COPPER (DUST) |
| 7440-47-3 | .02 | 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:

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

ARSENIC LESS THAN 3PPM

CADMIUM LESS THAN 0.5PPM

CHROMIUM 12PPM

MERCURY LESS THAN 1PPM

LEAD 17PPM

NICKEL LESS THAN 1PPM

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

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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)

ARSENIC LESS THAN 3PPM

CADMIUM LESS THAN 0.5PPM

CHROMIUM 12PPM

MERCURY LESS THAN 1PPM

LEAD 17PPM

NICKEL LESS THAN 1PPM

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

LEAD

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

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:
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:

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

HEXADECANAMIDE, N,N'-1,2-ETHANEDDIYLBIS- CAS# 005518-18-3

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
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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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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
MATERIAL OR FOR THE RESULTS OBTAINED. IT IS THE RESPONSIBILITY OF THE USER
TO COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS.