

SHIPPED FROM:

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

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M A T E R I A L   S A F E T Y   D A T A   S H E E T  
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DATE: 11/24/14  
PAGE: 1

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

PRODUCT DESCRIPTION: SAND 747SW-B 4% ABS  
PRODUCT CODE: 06ABS-344

\*\*\*\*\* 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.

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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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PAGE: 2

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SECTION I - PRODUCT INFORMATION:

PRODUCT DESCRIPTION:

SAND 747SW-B 4% ABS

PRODUCT CODE:

06ABS-344

VERSION NUMBER:

2

DATE: 11/24/14

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 29CFR1910.1200  
OSHA HAZARD COMMUNICATION STANDARD 29CFR 1910.1200.

CAS NUMBER	DESCRIPTION	OSHA	ACGIH	OTHER LIMITS	DOES NOT EXCEED(%)
		PEL MG/M3	TLV MG/M3		
100-42-5	STYRENE	100PPM	-	-	.13
68186-90-3	CHROME ANTIMONY TITANIUM	-	-	-	2.96
CRCMPD	CHROMIUM (III) COMPOUND	0.5	0.5	-	2.96
SBCMPD	ANTIMONY & COMPOUNDS(AS SB)	0.5	0.5	-	2.96
7440-36-0	ANTIMONY (SB) METAL	0.5	0.5	-	.30
7440-47-3	CHROMIUM AS CR	0.5	0.5	-	.12
68412-38-4	C.I. PIGMENT YELLOW 164	-	-	-	2.13
68186-91-4	COPPER CHROMITE SPINEL	N.E.	N.E.	-	.31
13463-67-7	TITANIUM DIOXIDE (DUST)	10.0	10.0	-	26.75
1344-28-1	ALUMINUM OXIDE (DUST)	10.0	10.0	5.0	.27
7440-66-6	ZINC	-	5.0	-	.28
36443-68-2	ANTIOXIDANT/STABILIZER	-	-	-	.25

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

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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 150 C.  
THE METHOD USED TO DETERMINE THIS IS: PENSKY-MARTENS  
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:

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):

NONE

INCOMPATIBILITY (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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M A T E R I A L   S A F E T Y   D A T A   S H E E T  
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DATE: 11/24/14  
PAGE: 4

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SECTION V - REACTIVITY DATA: (CONT)  
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HAZARDOUS POLYMERIZATION (CONDITIONS TO AVOID):  
HEATING ABOVE 340 C.

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SECTION VI - HEALTH HAZARD DATA:  
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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

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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

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DATE: 11/24/14  
PAGE: 5

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SECTION VI - HEALTH HAZARD DATA: (CONT)  
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IRRITATION.    PROLONGED INHALATION MAY CAUSE LUNG DAMAGE.

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.

ZINC:    INHALED IN SUBSTANTIAL AMOUNTS MAY IRRITATE THE RESPIRATORY  
TRACT. EXTREME EXPOSURE MAY CAUSE TEMPORARY BREATHING DIFICULTIES.

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

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)

ZINC: NONE NOTED

ANTIOXIDANT: LIVER DISEASE AND JAUDICE: THYROID CONDITIONS

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## 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.

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SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE:  
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## 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

INCINERATE IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTER BURNER AND  
SCRUBBER. FOLLOW ALL FEDERAL, STATE AND LOCAL 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.

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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  
          IMPERVIOUS GLOVES

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.

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	.13	STYRENE
CRCMPD	3.27	CHROMIUM (III) COMPOUND
SBCMPD	5.09	ANTIMONY COMPOUND
7440-36-0	.70	ANTIMONY (SB) METAL
7440-47-3	.25	CHROMIUM (III) AS (CR)
MNCMPD	2.13	MANGANESE COMPOUND
7439-96-5	.11	MANGANESE (MN)
CUCMPD	.31	COPPER COMPOUND
7440-50-8	.09	COPPER (DUST)
7440-66-6	.28	ZINC (AS ZINC METAL)

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DATE: 11/24/14  
PAGE: 8

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SECTION IX - OTHER REGULATORY INFORMATION: (CONT)

ZNCMPD 2.67 ZINC COMPOUND

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  
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:



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DATE: 11/24/14  
PAGE: 9

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SECTION X - STATE REGULATORY INFORMATION: (CONT)  
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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

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.