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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: PVC 012.000% SFR PLATINUM #2 PD
PRODUCT CODE: CVS2754406

***** 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 -->E

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SECTION I - PRODUCT INFORMATION:

PRODUCT DESCRIPTION:

PVC 012.000% SFR PLATINUM #2 PD

PRODUCT CODE:

CVS2754406

VERSION NUMBER:

4

DATE: 1/16/15

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	DESCRIPTION	OSHA PEL MG/M3	ACGIH TLV MG/M3	OTHER LIMITS	DOES NOT EXCEED(%)
68186-90-3	CHROME ANTIMONY TITANIUM	-	-	-	.31
CRCMPD	CHROMIUM (III) COMPOUND	0.5	0.5	-	.31
SBCMPD	ANTIMONY & COMPOUNDS(AS SB)	0.5	0.5	-	.31
7440-36-0	ANTIMONY (SB) METAL	0.5	0.5	-	.03
7440-47-3	CHROMIUM AS CR	0.5	0.5	-	.01
7439-96-5	MANGANESE (MN)	5.0	0.2	-	.01
7440-36-0	ANTIMONY (SB) METAL	0.5	0.5	-	.02
68186-91-4	COPPER CHROMITE SPINEL	N.E.	N.E.	-	.16
13463-67-7	TITANIUM DIOXIDE (DUST)	10.0	10.0	-	6.10
1344-28-1	ALUMINUM OXIDE (DUST)	10.0	10.0	5.0	.01
12001-26-2	MICA(MINERAL)	3.0	3.0	-	14.40
73138-45-1	MONTAN WAX ACID (PNOC)	15.0	10.0	3.0	.75
75-01-4	VINYL CHLORIDE MONOMER	1 PPM	5PPM	0.5PPM	.01

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS:

BOILING POINT: N/A
SPECIFIC GRAVITY: 1.35-1.55
VAPOR PRESSURE: N/A
MELTING POINT: Non Determined
VAPOR DENSITY: N/A
EVAPORATION RATE: N/A
SOLUBILITY IN WATER: SLIGHT

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SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS: (CONT)
-----APPEARANCE AND ODOR: POWDER - SLIGHT ODOR
-----SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT (METHOD USED):

THERE IS A COMPONENT IN THIS PRODUCT WITH A FLASH POINT OF 391 C.
THE METHOD USED TO DETERMINE THIS IS: EXTERNAL PILOT FLAME
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 OPEN FLAME OR TEMP EXCEEDING RECOMMENDED PROCESSING TEMPS

INCOMPATIBILITY (MATERIALS TO AVOID):

DURING PROCESSING, AVOID ACETAL/ACETAL COPOLYMERS AND AMINES

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

ACUTE: PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. HARMFUL IF ABSORBED THROUGH SKIN. CHRONIC: REPEATED EXPOSURE MAY CAUSE ALLERGIC SKIN RASH, ITCHING, SWELLING.

HEALTH HAZARD: INGESTION

MAY CAUSE HEADACHE, NAUSEA, VOMITING, BREATHING DIFFICULTIES, AND WEAKNESS. POSSIBLE KIDNEY DAMAGE MAY RESULT FROM INGESTION OF LARGE QUANTITIES.

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:

CHROME ANTIMONY TITANIUM RUTILE: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT

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SECTION VI - HEALTH HAZARD DATA: (CONT)

IRRITATION. PROLONGED INHALATION MAY CAUSE LUNG DAMAGE.

MAGANESE ANTIMONY TITANIUM: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT
IRRITATION.

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.

MICA/TITANIUM DIOXIDE: COUGHING, WHEEZING, OR SHORTNESS OF BREATH WHEN
INHALED. ITCHING, IRRITATION AND REDNESS AFTER CONTACT WITH THE EYES. MICA
CAN CAUSE LUNG DAMAGE RESULTING IN SLIGHT LUNG FIBROSIS.

MONTAN WAX: MAY CAUSE LOCAL IRRITATION OF THE EYES, NOSE, THROAT, AND LUNGS
FINE POWDER MAY CAUSE MECHANICAL IRRITATION OF EYES AND RESPIRATORY TRACT.

DUST MAY CAUSE IRRITATION OF THE NOSE, LUNGS AND THROAT.
FUMES RELEASED DURING PROCESSING MAY CAUSE IRRITATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

CHROME ANTIMONY TITANIUM RUTILE: RESPIRATORY AND SKIN DISORDERS AGGRAVATED
BY DUST.

MAGANESE ANTIMONY TITANIUM: 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)

MICA/TITANIUM DIOXIDE: ASTHMA, EMPHYSEMA, OR OTHER EXISTING LUNG OR

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SECTION VI - HEALTH HAZARD DATA: (CONT)

RESPIRATORY DISEASE.

MONTAN WAX: NONE KNOWN

NONE KNOWN

EMERGENCY FIRST AID: INHALATION

REMOVE TO UNCONTAMINATED AREA. IF NOT BREATHING, ADMINISTER ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK MEDICAL ATTENTION

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

FOR EXCESSIVE INGESTION DRINK WATER OR MILK. CALL A PHYSICIAN

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

DIKE AND ABSORB SPILL WITH AN INERT MATERIAL SUCH AS SAND, OR EARTH AND
TRANSFER TO A SUITABLE CONTAINER FOR DISPOSAL.

HANDLING: WASTE DISPOSAL

DISPOSE IN CLOSED CONTAINERS. COMPLY 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.

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

HANDLING: OTHER PRECAUTIONS

AGRESSIVE MEASURES SHOULD BE TAKEN TO AVOID DUST ACCUMULATION; EMPLOY
BONDING, GROUNDING, VENTING, AND EXPLOSION RELIEF PROVISIONS IN ACCORDANCE
WITH ACCEPTED ENGINEERING PROCEDURES.-----
SECTION VIII - CONTROL MEASURES:

CONTROL: RESPIRATORY PROTECTION

NIOSH/MSHA APPROVED ORGANIC VAPOR CARTRIDGE RESPIRATOR MAY BE NEEDED WHEN
HANDLING MOLTEN MATERIAL.

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
AND DISTRIBUTED FOR THIS MATERIAL.DOES NOT
CAS # EXCEED(%) DESCRIPTION
CRCMPD .47 CHROMIUM (III) COMPOUND

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SECTION IX - OTHER REGULATORY INFORMATION: (CONT)

SBCMPD	.45	ANTIMONY COMPOUND
7440-36-0	.05	ANTIMONY (SB) METAL
7440-47-3	.08	CHROMIUM (III) AS (CR)
MNCMPD	.14	MANGANESE COMPOUND
7439-96-5	.01	MANGANESE (MN)
CUCMPD	.16	COPPER COMPOUND
7440-50-8	.05	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)

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)

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SECTION X - STATE REGULATORY INFORMATION: (CONT)

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:
NONE

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