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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

PRODUCT DESCRIPTION: STD BROWN; 1%
PRODUCT CODE: 06DBS-1159

***** 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 ----->0

REACTIVITY ----->0

PERSONAL PROTECTION -->E

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SECTION I - PRODUCT INFORMATION:

PRODUCT DESCRIPTION:

STD BROWN; 1%

PRODUCT CODE:

06DBS-1159

VERSION NUMBER:

3

DATE: 1/29/15

CHEMICAL NAME/FAMILY:

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 PEL MG/M3	ACGIH TLV MG/M3	OTHER LIMITS	DOES NOT EXCEED(%)
1317-61-9	IRON OXIDE BLACK(AS FE)	-	5.0	-	1.32
1317-65-3	LIMESTONE (TOTAL DUST)	15.0	10.0	5.0	7.90
14808-60-7	SILICA, CRYSTALLINE QUARTZ	0.1	0.1	-	.08

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS:

BOILING POINT: N/A
SPECIFIC GRAVITY: 5.6
VAPOR PRESSURE: N/A
MELTING POINT: Non Determined
VAPOR DENSITY: N/A
EVAPORATION RATE: N/A
SOLUBILITY IN WATER: NEGLIGIBLE
APPEARANCE AND ODOR: COLORED DRY POWDER - 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 285 C.
THE METHOD USED TO DETERMINE THIS IS: COC
ALL OTHER COMPONENTS USED IN THIS PRODUCT EITHER HAVE A HIGHER FLASH
POINT OR ARE NOT COMBUSTIBLE AND DO NOT HAVE A FLASH POINT.

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA: (CONT)

EXTINGUISHING MEDIA:

WATER SPRAY, FOAM, CARBON DIOXIDE, OR DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES:

TREAT AS HOT OIL/ FAT FIRE. IF WATER MUST BE USED, USE A FOG NOZZLE TO
AVOID SPATTERING OF MELTED WAX AND SPREAD OF BURNING LIQUID.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

ADEQUATE VENTILATION AND CLEANUP MUST BE MAINTAINED TO MINIMIZE DUST
ACCUMULATION.

SECTION V - REACTIVITY DATA:

STABILITY: STABLE -> X UNSTABLE ->

STABILITY (CONDITIONS TO AVOID):

CONTACT WITH STRONG MINERAL ACIDS IS TO BE AVOIDED.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG ACIDS

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

OXIDES OF CARBON.

HAZARDOUS POLYMERIZATION: WILL OCCUR -> WILL NOT OCCUR -> X

HAZARDOUS POLYMERIZATION (CONDITIONS TO AVOID):

STORE AWAY FROM ACIDS

SECTION VI - HEALTH HAZARD DATA:

HEALTH HAZARDS (ACUTE AND CHRONIC):

HEALTH HAZARD: INHALATION

DUST FROM PRODUCT MAY CAUSE IRRITATION OF THE RESPIRATORY SYSTEM, NAUSEA
OR METALLIC TASTE IN THE MOUTH. PROLONGED EXPOSURE TO DUST MAY LEAD TO

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SECTION VI - HEALTH HAZARD DATA: (CONT)

PULMONARY PROBLEMS.

HEALTH HAZARD: SKIN

UNDER NORMAL CONDITIONS OF GOOD INDUSTRIAL HYGIENE, NOT EXPECTED TO BE AN
IRRITANT.

HEALTH HAZARD: INGESTION

NOT A PROBABLE ROUTE OF EXPOSURE.

HEALTH HAZARD: EYE CONTACT

INFORMATION NOT CURRENTLY AVAILABLE

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.

IRON OXIDE: DUST MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.
HIGH TEMPERATURES - CAN DECOMPOSE FORMING TOXIC GASES.
ABOVE 60C MAY CAUSE IRON OXIDE TO OXIDIZE.
PROLONG CONTACT OR OVER EXPOSURE MAY CAUSE SKIN STAINING AND DRYING OF
SKIN. MAY ALSO CAUSE (CNS) DEPRESSION AND PNEUMOCONIOSIS.
SEVERE OVEREXPOSURE MAY LEAD TO COMA AND POSSIBLE DEATH DUE TO
RESPIRATORY FAILURE. OXIDE DUSTS HAVE BEEN ASSOCIATED WITH SIDEROSIS.

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.

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.

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SECTION VI - HEALTH HAZARD DATA: (CONT)

IRON OXIDE: DISEASES OF THE SKIN, EYES AND RESPIRATORY TRACT.

CALCIUM CARBONATE: NONE KNOWN

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

WASH WITH SOAP AND WATER. IF SYMPTOMS OCCUR CONSULT PHYSICIAN.

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

INFORMATION NOT CURRENTLY AVAILABLE

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE:

HANDLING: SPILLAGE

SWEEP UP AND REMOVE TO DISPOSAL CONTAINER EXERCISING PRECAUTIONS NOT TO
CREATE DUST CONDITION.

HANDLING: WASTE DISPOSAL

LANDFILL OR INCINERATE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS.

HANDLING: STORAGE

PROTECT CONTAINERS FROM BREAKAGE. CLEAN UP ALL SPILLS IMMEDIATELY. STORE
IN A CLEAN DRY AREA. KEEP AWAY FROM FOOD PRODUCT.

HANDLING: OTHER PRECAUTIONS

ELIMINATE IGNITION SOURCES. WARNING! STATIC CHARGES GENERATED BY EMPTYING
PACKAGE IN OR NEAR FLAMMABLE VAPORS MAY CAUSE FLASH FIRE. MAY FORM
FLAMMABLE DUST/AIR MIXTURES. GROUND ALL EQUIPMENT. IN ADDITION, WHEN

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

EMPTYING BAGS WHERE FLAMMABLE VAPORS MAY BE PRESENT, BLANKET VESSEL WITH
INERT GAS, GROUND OPERATOR, AND POUR MATERIAL SLOWLY INTO CONDUCTIVE,
GROUNDED CHUTE.

SECTION VIII - CONTROL MEASURES:

CONTROL: RESPIRATORY PROTECTION
 IN DUSTY ATMOSPHERES USE NIOSH/MSHA APPROVED RESPIRATORS

CONTROL: VENTILATION
 SUITABLE FOR DUSTS NOT MORE TOXIC THAN LEAD.

CONTROL: GLOVES
 IMPERVIOUS GLOVES

CONTROL: EYE PROTECTION
 GOGGLES

CONTROL: OTHER CLOTHING
 WEAR LONG SLEEVED SHIRTS AND PANTS TO MINIMIZE SKIN CONTACT.

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.

CAS #	DOES NOT EXCEED(%)	DESCRIPTION
ZNCMPD	70.88	ZINC COMPOUND
7440-66-6	21.26	ZINC

TSCA - ALL INGREDIENTS USED TO PRODUCE THE ABOVE FORMULATION ARE IN

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SECTION IX - OTHER REGULATORY INFORMATION: (CONT)

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)

ARSENIC: < 1 PPM
CADMIUM: 2 PPM
CHROMIUM (VI): < 1 PPM
COBALT: 7 PPM
LEAD: 4 PPM
NICKEL: 35 PPM
ARSENIC CAS# 7440-38-2 <10PPM
CADMIUM CAS# 7440-43-9 <10PPM
NICKEL CAS# 7440-02-0 50 - 200PPM
LEAD CAS# 7439-92-1 10 - 90PPM
SELENIUM CAS# 7782-49-2 < 2 PPM
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
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)

CADMIUM: 2 PPM
CHROMIUM (VI): < 1 PPM
LEAD: 4 PPM
MERCURY: < 0.5 PPM
ARSENIC CAS# 7440-38-2 <10PPM
CADMIUM CAS# 7440-43-9 <10PPM

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SECTION X - STATE REGULATORY INFORMATION: (CONT)

MERCURY CAS# 7439-97-6 <1PPM
LEAD CAS# 7439-92-1 10 - 90PPM
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)
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:

ARSENIC CAS# 7440-38-2 <10PPM
CADMIUM CAS# 7440-43-9 <10PPM
NICKEL CAS# 7440-02-0 50 - 200PPM

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:

ZINC FERRITE CAS# 68187-51-9 APPROX. 100%

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:

ZINC FERRITE CAS# 68187-51-9 APPROX. 100%

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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