

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

M A T E R I A L S A F E T Y D A T A S H E E T

DATE: 1/29/15
PAGE: 1

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

PRODUCT DESCRIPTION: STD YELLOW; 1%; ABS
PRODUCT CODE: 03DBS-404

***** 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 -->E

SHIPPED FROM:

M A T E R I A L S A F E T Y D A T A S H E E T

DATE: 1/29/15
PAGE: 2

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 YELLOW; 1%; ABS
PRODUCT CODE: 03DBS-404

SECTION I - PRODUCT INFORMATION:

PRODUCT DESCRIPTION:

STD YELLOW; 1%; ABS

PRODUCT CODE:

03DBS-404

VERSION NUMBER:

5

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	ACGIH	OTHER LIMITS	DOES NOT EXCEED(%)
		PEL MG/M3	TLV MG/M3		
68186-90-3	CHROME ANTIMONY TITANIUM	-	-	-	12.00
CRCMPD	CHROMIUM (III) COMPOUND	0.5	0.5	-	12.00
SBCMPD	ANTIMONY & COMPOUNDS(AS SB)	0.5	0.5	-	12.00
7440-36-0	ANTIMONY (SB) METAL	0.5	0.5	-	1.20
7440-47-3	CHROMIUM AS CR	0.5	0.5	-	.48
13463-67-7	TITANIUM DIOXIDE (DUST)	10.0	10.0	-	15.47
21645-51-2	ALUMINUM HYDROXIDE (AS AL)	N.E.	10.0	-	.60
7631-86-9	SILICON DIOXIDE, AMORPHOUS	6.0	10.0	-	.94
1317-65-3	LIMESTONE (TOTAL DUST)	15.0	10.0	5.0	.54
14808-60-7	SILICA, CRYSTALLINE QUARTZ	0.1	0.1	-	.01

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS:

BOILING POINT: N.A.
SPECIFIC GRAVITY: 1.6
VAPOR PRESSURE: N.A.
MELTING POINT: NON DETERMINED
VAPOR DENSITY: N.A.
EVAPORATION RATE: N.A.
SOLUBILITY IN WATER: PRACTICALLY INSOLUBLE
APPEARANCE AND ODOR: COLORED DRY POWDER - NO SIGNIFICANT ODOR

M A T E R I A L S A F E T Y D A T A S H E E T

DATE: 1/29/15
PAGE: 3

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

CLARIANT WEBSITE: HTTP:\\WWW.CLARIANTMASTERBATCH.COM

PRODUCT DESCRIPTION: STD YELLOW; 1%; ABS
PRODUCT CODE: 03DBS-404

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.

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:

TREAT AS A FLAMMABLE DUST, TAKE PRECAUTIONARY MEASURES AGAINST
STATIC DISCHARGES

SECTION V - REACTIVITY DATA:

STABILITY: STABLE -> X UNSTABLE ->

STABILITY (CONDITIONS TO AVOID):

DRY MIXTURES WITH CHROMATE PIGMENTS CAN BE EXPLOSIVE RISKS

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG ACIDS

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):

HEATING ABOVE 340 C.

SECTION VI - HEALTH HAZARD DATA:

M A T E R I A L S A F E T Y D A T A S H E E T

DATE: 1/29/15
PAGE: 4

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

CLARIANT WEBSITE: HTTP:\\WWW.CLARIANTMASTERBATCH.COM

PRODUCT DESCRIPTION: STD YELLOW; 1%; ABS
PRODUCT CODE: 03DBS-404

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

THIS PRODUCT IS NOT EXPECTED TO BE TOXIC BY INGESTION. LARGE QUANTITIES OF MATERIALS INGESTED MAY CAUSE DISCOMFORT OR OBSTRUCTION OF THE DIGESTIVE SYSTEMS.

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:

* THE FOLLOWING INFORMATION PROVIDED ON THE BELOW HAZARDOUS INGREDIENT(S)
APPLIES TO THE INGREDIENT(S) IN THE PURE DRY FORM.

CHROME ANTIMONY TITANIUM RUTILE: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED INHALATION MAY CAUSE LUNG DAMAGE.

AMORPHOUS SILICA: OVEREXPOSURE MAY CAUSE TISSUE RESPONSE IN THE LUNG WHICH IN SEVERE CASES CAN RESULT IN PULMONARY FIBROSIS (PNEUMOCONIOSIS).
TITANIUM DIOXIDE: MAY CAUSE MECHANICAL EYE IRRITATION. LONG TERM EXPOSURE

SHIPPED FROM:

M A T E R I A L S A F E T Y D A T A S H E E T

DATE: 1/29/15
PAGE: 5

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 YELLOW; 1%; ABS
PRODUCT CODE: 03DBS-404

SECTION VI - HEALTH HAZARD DATA: (CONT)

TO AIRBORNE DUST MAY CAUSE LUNG DAMAGE.

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.

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

AMOROPHOUS SILICA: NONE KNOWN
TITANIUM DIOXIDE: NONE KNOWN

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

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.

M A T E R I A L S A F E T Y D A T A S H E E T

DATE: 1/29/15
PAGE: 6

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

CLARIANT WEBSITE: HTTP:\\WWW.CLARIANTMASTERBATCH.COM

PRODUCT DESCRIPTION: STD YELLOW; 1%; ABS
PRODUCT CODE: 03DBS-404

SECTION VI - HEALTH HAZARD DATA: (CONT)

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

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

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

USE UNDER WELL-VENTILATED CONDITIONS AND RECOMMEND THAT EMPLOYEES WASH
THOROUGHLY AFTER HANDLING PRODUCT.

SECTION VIII - CONTROL MEASURES:

CONTROL: RESPIRATORY PROTECTION

IN DUSTY ATMOSPHERES USE NIOSH/MSHA APPROVED RESPIRATORS

CONTROL: VENTILATION

LOCAL EXHAUST IS RECOMMENDED. APPROPRIATE PRECAUTIONS TO AVOID DUST
EXPLOSIONS SHOULD BE TAKEN INCLUDING A PROPERLY GROUNDED DUST COLLECTION
SYSTEM.

CONTROL: GLOVES

BUTYL RUBBER,PVC OR NEOPRENE

CONTROL: EYE PROTECTION

GOGGLES

CONTROL: OTHER CLOTHING

EYE WASH STATION.

SHIPPED FROM:

M A T E R I A L S A F E T Y D A T A S H E E T

DATE: 1/29/15
PAGE: 7

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 YELLOW; 1%; ABS
PRODUCT CODE: 03DBS-404

SECTION VIII - CONTROL MEASURES: (CONT)

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
CRCMPD	12.00	CHROMIUM (III) COMPOUND
SBCMPD	12.00	ANTIMONY COMPOUND
7440-36-0	1.20	ANTIMONY (SB) METAL
7440-47-3	.48	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)

LEAD

HEXAVALENT CHROMIUM

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

SHIPPED FROM:

M A T E R I A L S A F E T Y D A T A S H E E T

DATE: 1/29/15
PAGE: 8

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: STD YELLOW; 1%; ABS
PRODUCT CODE: 03DBS-404

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.OEHH.A.CA.GOV/PROP65/PROP65_LIST/NEWLIST.HTML](http://www.oeeha.ca.gov/prop65/prop65_list/newlist.html)

LEAD
HEXAVALENT CHROMIUM

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:
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

M A T E R I A L S A F E T Y D A T A S H E E T

DATE: 1/29/15
PAGE: 9

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

CLARIANT WEBSITE: HTTP:\\WWW.CLARIANTMASTERBATCH.COM

PRODUCT DESCRIPTION: STD YELLOW; 1%; ABS
PRODUCT CODE: 03DBS-404

SECTION X - STATE REGULATORY INFORMATION: (CONT)

SHOWN IN SECTION II ARE AS FOLLOWS:
NONE

THIS INFORMATION IS ACCURATE AND RELIABLE TO THE BEST OF OUR KNOWLEDGE.
IT IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED. CLARIANT
CORPORATION ASSUMES NO LEGAL RESPONSIBILITY FOR THE USE OF, OR RELIANCE
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.