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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: ABS    SAMSUNG ABS 004.000% TUNGSTEN METALLIC #3  
PRODUCT CODE:            SBS2754436

\*\*\*\*\* 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 ----->1

REACTIVITY ----->0

PERSONAL PROTECTION -->B

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SECTION I - PRODUCT INFORMATION:

PRODUCT DESCRIPTION:

ABS SAMSUNG ABS 004.000% TUNGSTEN METALLIC #3

PRODUCT CODE:

SBS2754436

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	-	-	.17
1309-37-1	IRON OXIDE (TOTAL DUST)	15.0	5.0	5.0	.19
7631-86-9	SILICON DIOXIDE, AMORPHOUS	6.0	10.0	-	.01
7727-43-7	BARIUM SULFATE(DUST)	5.0	10.0	-	.01
68186-90-3	CHROME ANTIMONY TITANIUM	-	-	-	.50
CRCMPD	CHROMIUM (III) COMPOUND	0.5	0.5	-	.50
SBCMPD	ANTIMONY & COMPOUNDS(AS SB)	0.5	0.5	-	.50
7440-36-0	ANTIMONY (SB) METAL	0.5	0.5	-	.05
7440-47-3	CHROMIUM AS CR	0.5	0.5	-	.02
1333-86-4	CARBON BLACK	3.5	3.5	-	.50
13463-67-7	TITANIUM DIOXIDE (DUST)	10.0	10.0	-	.60
7429-90-5	ALUMINUM FLAKE	15.0	10.0	-	10.00
57-11-4	STEARIC ACID	N.E.	10.0	N.E.	.38
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

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SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS: (CONT)  
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VAPOR DENSITY: NA  
EVAPORATION RATE: NA  
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 150 C.  
THE METHOD USED TO DETERMINE THIS IS: PENSKEY-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:

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:

IT MAY NOT BE OBVIOUS THAT CARBON BLACK IS BURNING UNLESS THE MATERIAL IS  
STIRRED AND SPARKS ARE APPARENT. CARBON BLACK THAT HAS BEEN ON FIRE SHOULD  
BE OBSERVED CLOSELY FOR AT LEAST 48 HOURS TO ENSURE NO SMOLDERING MATERIAL  
IS PRESENT.

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SECTION V - REACTIVITY DATA:  
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STABILITY: STABLE -> X UNSTABLE ->

STABILITY (CONDITIONS TO AVOID):

AVOID EXPOSURE TO HEAT, SPARK, OR OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID):

AVOID CONTAMINATION WITH HIGH CONCENTRATIONS OF ALKALI AT ELEVATED  
TEMPERATURES.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

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SECTION V - REACTIVITY DATA: (CONT)  
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THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE HAZARDOUS FUMES OF TITANIUM  
OXIDE.

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

HAZARDOUS POLYMERIZATION (CONDITIONS TO AVOID):  
AVOID EXCESSIVE DUST IN VICINITY OF ELECTRICAL OR OTHER SPARK GENERATING  
EQUIPMENT.    AVOID EXTREME HEAT.

-----  
SECTION VI - HEALTH HAZARD DATA:  
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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

HIGH DUST CONCENTRATIONS MAY CAUSE MECHANICAL IRRITATION TO 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  
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SECTION VI - HEALTH HAZARD DATA: (CONT)  
-----

SIGNS AND SYMPTOMS OF EXPOSURE:

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

IRON OXIDE(CAS# 1309-37-1): EXPOSURE TO AIRBORNE DUST MAY REDUCE VISIBILITY AND MAY CAUSE MECHANICAL IRRITATION TO THE EYES AND RESPIRATORY TRACT. RIGOROUS SKIN CLEANING NECESSARY FOR REMOVAL OF DUST CAN CAUSE IRRITATION. PROLONGED INHALATION OF IRON OXIDE FUME HAS BEEN REPORTED TO PRODUCE CHANGES IN LUNG X-RAYS OF EXPOSED INDIVIDUALS. THIS CONDITION, SIDEROSIS, IS CONSIDERED TO BE A BENIGN PNEUMOCONIOSIS THAT EXHIBITS NO ADVERSE HEALTH EFFECTS.

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

CARBON BLACK: TEMPORARY DISCOMFORT TO UPPER RESPIRATORY TRACT. IARC HAS CLASSIFIED CARBON BLACK AS POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B).

TITANIUM DIOXIDE: MAY CAUSE MILD AND TEMPORARY UPPER RESPIRATORY IRRITATION WITH COUGH AND SHORTNESS OF BREATH. MAY CAUSE EYE IRRITATION.

ALUMINUM: MAY CAUSE EYE IRRITATION.

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

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

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

IRON OXIDE(CAS# 1309-37-1): PERSONS WITH PREEXISTING EYE OR SKIN CONDITIONS OR IMPAIRED PULMONARY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

CHROME ANTIMONY TITANIUM RUTILE: RESPIRATORY AND SKIN DISORDERS AGGRAVATED

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SECTION VI - HEALTH HAZARD DATA: (CONT)  
-----

BY DUST.

CARBON BLACK: UPPER RESPIRATORY DISORDERS, SUCH AS BRONCHITIS OR ASTHMA.

TITANIUM DIOXIDE: NONE KNOWN

ALUMINUM: 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.

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

WEARING APPROPRIATE PERSONNEL PROTECTIVE EQUIPMENT, CONTAIN SPILL, COLLECT  
IN A SUITABLE CONTAINER.

HANDLING: WASTE DISPOSAL

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

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

IN DUSTY ATMOSPHERES USE NIOSH/MSHA APPROVED RESPIRATORS

CONTROL: VENTILATION

USE ONLY WITH ADEQUATE VENTILATION AND DUST CONTAINMENT.

CONTROL: GLOVES

BUTYL RUBBER,PVC OR NEOPRENE

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:  
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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	.17	STYRENE
CRCMPD	.50	CHROMIUM (III) COMPOUND
SBCMPD	.50	ANTIMONY COMPOUND
7440-36-0	.05	ANTIMONY (SB) METAL
7440-47-3	.02	CHROMIUM (III) AS (CR)
7429-90-5	10.00	ALUMINUM (FUME AND 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)

STYRENE, ACRYLONITRILE  
LEAD

HEXAVALENT CHROMIUM

CARBON BLACK: (AIRBORNE, UNBOUND PARTICLES OF RESPIRABLE SIZE)" IS A  
CALIFORNIA PROPOSITION 65 LISTED SUBSTANCE. PLEASE NOTE  
THAT ALL THREE LISTING QUALIFIERS (AIRBORNE, UNBOUND (NOT BOUND WITHIN A  
MATRIX), AND RESPIRABLE SIZE (10 MICROMETERS OR LESS  
IN DIAMETER)) MUST BE MET FOR THIS SUBSTANCE TO BE CONSIDERED A PROPOSITION  
65 SUBSTANCE.

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  
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SECTION X - STATE REGULATORY INFORMATION: (CONT)  
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HTTP://WWW.OEHHA.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

CARBON BLACK - D2A VERY TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS  
ALUMINUM D2B, B-4

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    90 PPM

NICKEL    CAS# 7440-02-0    250 PPM

CHROMIUM    CAS# 7440-47-3    1200 PPM

RANDOM SAMPLE ANALYSES.

IRON OXIDE CAS# 1309-37-1    60 TO 100%

BARIUM SULFATE CAS# 7727-43-7    3 TO 7%

AMORPHOUS SILICA    CAS# 7631-86-9    1 TO 5%

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:

IRON OXIDE CAS# 1309-37-1    60 TO 100%

BARIUM SULFATE CAS# 7727-43-7    3 TO 7%

AMORPHOUS SILICA    CAS# 7631-86-9    1 TO 5%

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  
INFORMATION. ANY COMPONENT OF THIS PRODUCT WHICH IS A  
HAZARDOUS CHEMICAL AS LISTED ON THE PENNSYLVANIA HAZARDOUS

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LIST IS GIVEN IN SECTION II OF THIS MSDS. ANY LISTED  
CHEMICALS NOT SHOWN IN SECTION II ARE AS FOLLOWS:  
IRON OXIDE CAS# 1309-37-1    60 TO 100%  
BARIUM SULFATE CAS# 7727-43-7    3 TO 7%  
AMORPHOUS SILICA CAS# 7631-86-9    1 TO 5%

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:

THIS INFORMATION IS ACCURATE AND RELIABLE TO THE BEST OF OUR KNOWLEDGE.  
IT IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED. CLARIANT  
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TO COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS.