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CLARIANT PLASTICS & COATING  
CANADA, INC. MASTERBATCHES  
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: PVC 8245 002.000% BROWN BK-052  
PRODUCT CODE: CV83755022

\*\*\*\*\* 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

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SECTION I - PRODUCT INFORMATION:

PRODUCT DESCRIPTION:

PVC 8245 002.000% BROWN BK-052

PRODUCT CODE:

CV83755022

VERSION NUMBER:

5

DATE: 4/28/16

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<br>NUMBER | DESCRIPTION                | OSHA<br>PEL<br>MG/M3 | ACGIH<br>TLV<br>MG/M3 | OTHER<br>LIMITS | DOES NOT<br>EXCEED(%) |
|---------------|----------------------------|----------------------|-----------------------|-----------------|-----------------------|
| 1309-37-1     | IRON OXIDE (TOTAL DUST)    | 15.0                 | 5.0                   | 5.0             | 7.50                  |
| 7631-86-9     | SILICON DIOXIDE, AMORPHOUS | 6.0                  | 10.0                  | -               | .38                   |
| 7727-43-7     | BARIUM SULFATE(DUST)       | 5.0                  | 10.0                  | -               | .53                   |
| 1333-86-4     | CARBON BLACK               | 3.5                  | 3.5                   | -               | .87                   |
| 13463-67-7    | TITANIUM DIOXIDE (DUST)    | 10.0                 | 10.0                  | -               | 4.00                  |
| 1344-28-1     | ALUMINUM OXIDE (DUST)      | 10.0                 | 10.0                  | 5.0             | .04                   |
| 75-01-4       | VINYL CHLORIDE MONOMER     | 1 PPM                | 5PPM                  | 0.5PPM          | ----                  |

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  
APPEARANCE AND ODOR: COLORED PLASTIC PELLETS - NO SIGNIFICANT ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA:  
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## 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:

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.

-----  
SECTION V - REACTIVITY DATA:  
-----

STABILITY: STABLE -&gt; X UNSTABLE -&gt;

## STABILITY (CONDITIONS TO AVOID):

TO AVOID THERMAL DECOMPOSITION DO NOT OVERHEAT. DECOMPOSITION BEGINS AT  
APPROX. 240 C.

## 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 -&gt; WILL NOT OCCUR -&gt; X

## HAZARDOUS POLYMERIZATION (CONDITIONS TO AVOID):

N/A

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SECTION V - REACTIVITY DATA: (CONT)  
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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 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

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  
-----

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. THE FORM OF THE INGREDIENTS PROVIDED TO YOU IS ENCAPSULATED IN PLASTIC, AND THEREFORE, THE LIKELIHOOD OF EXPOSURE IS MUCH LESS, EVEN TO THE POINT OF NEGLIGIBLE.

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SECTION VI - HEALTH HAZARD DATA: (CONT)  
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WE THEREFORE CONSIDER THE LEVEL OF HAZARD TO BE NEGLIGIBLE.

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.

SILICON DIOXIDE: PROLONGED INHALTION OF AMORPHOUS SILICA MAY PRODUCE X-RAY CHANGES IN THE LUNGS WITHOUT DISABILITY.

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

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.

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

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. THE FORM OF THE INGREDIENT(S) 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.

IRON OXIDE - NONE KNOWN

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

TITANIUM DIOXIDE, ALUMINUM OXIDE: TITANIUM DIOXIDE LISTED BY IARC AS GROUP 2(B) POSSIBLE CARCINOGENIC TO HUMANS. ALUMINUM OXIDE (RESPIRATORY DISORDERS)

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SECTION VI - HEALTH HAZARD DATA: (CONT)  
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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

DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE 2 GLASSES OF WATER. CALL  
PHYSICIAN IMMEDIATELY.

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

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

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

AGGRESSIVE MEASURES SHOULD BE TAKEN TO AVOID DUST ACCUMULATION; EMPLOY  
BONDING, GROUNDING, VENTING, AND EXPLOSION RELIEF PROVISIONS IN ACCORDANCE

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

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

LEATHER OR OTHER NON-PERMEABLE GLOVES.

CONTROL: EYE PROTECTION

GOGGLES

CONTROL: OTHER CLOTHING

IMPERVIOUS CLOTHING SHOULD BE WORN WHEN GROSS CONTACT IS LIKELY, SUCH AS  
WHEN CLEANING UP SPILLS OF LARGE AMOUNTS.

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<br>EXCEED(%) | DESCRIPTION   |
|-----------|-----------------------|---------------|
| ZNCMPD    | 11.00                 | ZINC COMPOUND |
| 7440-66-6 | 3.30                  | ZINC          |

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SECTION IX - OTHER REGULATORY INFORMATION: (CONT)  
-----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

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 PPMCARBON 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  
FINISHED PRODUCTS REQUIRE LABELING UNDER CALIFORNIA PROPOSITION 65.

HTTP://WWW.OEHHA.CA.GOV/PROP65/PROP65\_LIST/NEWLIST.HTML

ARSENIC CAS# 7440-38-2 <10PPM  
CADMIUM CAS# 7440-43-9 <10PPM  
MERCURY CAS# 7439-97-6 <1PPM  
LEAD CAS# 7439-92-1 10 - 90PPMCANADIAN WHMIS: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL  
AS GIVEN IN WHMIS IS SHOWN BELOW:



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SECTION X - STATE REGULATORY INFORMATION: (CONT)  
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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  
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:

|                                |             |
|--------------------------------|-------------|
| IRON OXIDE CAS# 1309-37-1      | <100%       |
| SILICON DIOXIDE CAS# 7631-86-9 | <5.0%       |
| BARIUM SULFATE CAS# 7727-43-7  | <7.0%       |
| ARSENIC CAS# 7440-38-2         | 50 PPM      |
| NICKEL CAS# 7440-02-0          | 250 PPM     |
| CHROMIUM CAS# 7440-47-3        | 900 PPM     |
| 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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SECTION X - STATE REGULATORY INFORMATION: (CONT)  
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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.