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8/26/99

SHIPPED FROM:

HOLDEN-CLARIANT MASTERBATCHES  
17 HOLDEN INDUSTRIAL PARK  
HOLDEN, MA 01520  
PHONE: 508-829-6321

EMERGENCY TELEPHONE: 508-829-6321 EXT 2456

PRODUCT DESCRIPTION: OMNICOLOR SAGE GREEN  
PRODUCT CODE: UN65087

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\*\*\*\*\* 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 -->A

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PRODUCT CODE: UN66087

SECTION I - PRODUCT INFORMATION:

PRODUCT DESCRIPTION: OMNICOLOUR SAGE GREEN

PRODUCT CODE: UN66087 VERSION NUMBER: 3 DATE: 7/29/99

CHEMICAL NAME/FAMILY: POLYSTYRENE (PS) + 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 (%)
1333-86-4	CARBON BLACK	3.5	3.5	-	.01
7440-50-8	COPPER (DUST)	1.0	1.0	0.1	.51
13463-67-7	TITANIUM DIOXIDE (DUST)	10.0	10.0	-	27.38
21645-51-2	ALUMINUM HYDROXIDE (AS AL) N.E.	10.0	10.0	-	2.51
7631-86-9	SILICON DIOXIDE, AMORPHOUS	6.0	10.0	-	2.79

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS:

BOILING POINT: NA  
SPECIFIC GRAVITY: NA  
VAPOR PRESSURE: NA  
MELTING POINT: ABOUT 105C  
VAPOR DENSITY: NA  
EVAPORATION RATE: NA  
SOLUBILITY IN WATER: INSOLUBLE  
APPEARANCE AND ODOR: COLORED PLASTIC PELLETT - 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 260 C.  
THE METHOD USED TO DETERMINE THIS IS: ASTM D1929-77  
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:

BURNING WILL PRODUCE TOXIC FUMES. WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL TURNOUT GEAR TO FIGHT FIRES.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AVOID DUST FORMATION AND CONTROL IGNITION SOURCES: EMPLOY GROUNDING, VENTING AND EXPLOSION RELIEF PROVISIONS. EMPTY ONLY INTO INERT OR NON-FLAMMABLE ATMOSPHERE.

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

STABILITY (CONDITIONS TO AVOID):

AVOID MOISTURE, EXCESSIVE HEAT, AND SOURCES OF IGNITION.

INCOMPATIBILITY (MATERIALS TO AVOID):

AVOID CONTACT WITH STRONG ALKALI, AMINES.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

HEATING ABOVE 300C EVOLVES COMBUSTIBLE GASES

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

HAZARDOUS POLYMERIZATION (CONDITIONS TO AVOID):

SMOKING, OPEN FLAMES, SPARKS AND OTHER SOURCES OF IGNITION AND HEAT.

-----  
SECTION VI - HEALTH HAZARD DATA:  
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HEALTH HAZARDS (ACUTE AND CHRONIC):

HEALTH HAZARD: INHALATION

REPEATED OR PROLONGED INHALATION OF DUSTS CAN CAUSE THE FOLLOWING:  
IRRITATION OF NOSE, THROAT, AND LUNGS; NAUSEA; HEADACHE; DIZZINESS;  
LUNG DAMAGE.

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SECTION VI - HEALTH HAZARD DATA: (CONT)

HEALTH HAZARD: SKIN

REPEATED OVEREXPOSURE TO THIS COMPOUND MAY CAUSE SKIN IRRITATION.

HEALTH HAZARD: INGESTION  
INGESTION MAY RESULT IN GASTRIC DISTURBANCES

HEALTH HAZARD: EYE CONTACT  
EYE CONTACT MAY CAUSE A MECHANICAL ABRASION 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. 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.  
WE THEREFORE CONSIDER THE LEVEL OF HAZARD TO BE NEGLIGIBLE.

CARBON BLACK: COUGHING WITH PHEGM PRODUCTION, TIREDNESS, CHEST PAIN AND  
HEADACHE. IARC HAS CLASSIFIED CARBON BLACK AS GROUP 2B.

TITANIUM DIOXIDE: INHALATION MAY INCLUDE MILD AND TEMPORARY UPPER  
RESPIRATORY IRRITATION WITH COUGH AND SHORTNESS OF BREATH. PROLONGED AND  
REPEATED CONTACT TO SKIN MAY CAUSE DRYING AND CRACKING IN SENSITIVE  
INDIVIDUALS.

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  
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THE LIKELIHOOD OF EXPOSURE IS MUCH LESS, EVEN TO THE POINT OF NEGLIGIBLE.  
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CARBON BLACK: NONE KNOWN

TITANIUM DIOXIDE: DISEASES OF THE LUNG

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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  
WASH WITH SOAP AND WATER, IF IRRITATION OCCURS CONSULT PHYSICIAN. REMOVE  
AND LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

EMERGENCY FIRST AID: INGESTION  
IF CONSCIOUS, GIVE WATER AND THEN INDUCE VOMITTING. NEVER GIVE FLUIDS OR  
INDUCE VOMITTING IF THE VICTIM IS UNCONSCIOUS OR HAVING CONVULSIONS. GET  
IMMEDIATE MEDICAL ATTENTION.

EMERGENCY FIRST AID: EYE CONTACT  
IN CASE OF CONTACT, IMMEDIATELY FLUSH WITH PLENTY OF LOW-PRESSURE WATER  
FOR AT LEAST 15 MIN. REMOVE ANY CONTACT LENSES TO ENSURE THROUGH  
FLUSHING. CALL A PHYSICIAN.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE:

HANDLING: SPILLAGE  
CONTAIN SPILLAGE AND SCOOP UP OR VACUUM: AVOID DUSTING.

HANDLING: WASTE DISPOSAL  
DISPOSE IN CLOSED CONTAINERS. COMPLY WITH LOCAL, STATE, AND FEDERAL  
REGULATIONS.

HANDLING: STORAGE  
ENSURE ADEQUATE VENTILATION TO AVOID DUSTING. WHEN TRANSFERRING LARGE  
QUANTITIES PROCESS EQUIPMENT SHOULD BE GROUNDED TO PREVENT BUILDUP  
OF ELECTROSTATIC CHARGE.

HANDLING: OTHER PRECAUTIONS  
IN ACCORDANCE WITH GOOD MANUFACTURING PRACTICES, GOOD GENERAL VENTILATION  
OF THE POLYMER PROCESSING AREA IS RECOMMENDED.

SECTION VIII - CONTROL MEASURES:

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

CONTROL: VENTILATION  
USE ONLY WITH ADEQUATE VENTILATION AND DUST CONTAINMENT.

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SECTION VIII - CONTROL MEASURES: (CONT)

CONTROL: GLOVES

LEATHER OR OTHER NON-PERMEABLE GLOVES.

CONTROL: EYE PROTECTION

GOGGLES

CONTROL: OTHER CLOTHING

WEAR APPROPRIATE CLEAN, PROTECTIVE CLOTHING, SUCH AS, BUT NOT LIMITED TO  
COVERALLS, SMOCKS, APRONS, GLOVES, SHOES AND/OR HATS.

CONTROL: WORK/HYGIENE

EYE WASH STATION SHOULD BE AVAILABLE IN AREAS OF USE. WASH HANDS AND FACE  
BEFORE EATING, DRINKING OR SMOKING.

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:

CAS # DOES NOT EXCEED(%) DESCRIPTION

NONE  
TSCA - ALL INGREDIENTS USED TO PRODUCE THE ABOVE FORMULATION ARE LISTED  
IN 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 IS SHOWN IN SECTION II OF THIS  
MSDS. ANY LISTED CHEMICALS NOT SHOWN IN  
SECTION II ARE AS FOLLOWS:

NONE

CA PROPOSITION 65: WARNING - ANY COMPONENT OF THIS PRODUCT WHICH CONTAINS  
MATERIALS KNOWN TO THE STATE OF CALIFORNIA TO  
CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM

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SECTION X - STATE REGULATORY INFORMATION: (CONT)

IS SHOWN IN SECTION II OF THIS MSDS. ANY LISTED CHEMICALS NOT SHOWN IN SECTION II ARE AS FOLLOWS:

NONE

CANADIAN WHMIS: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL AS GIVEN IN WHMIS IS SHOWN IN SECTION II OF THIS MSDS. ANY LISTED CHEMICALS NOT SHOWN IN SECTION II ARE AS FOLLOWS.

NONE

FLORIDA: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL AS LISTED IN THE FLORIDA SUBSTANCE LIST IS SHOWN IN SECTION II OF THIS MSDS. ANY LISTED CHEMICALS NOT

MASSACHUSETTS: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL AS LISTED IN THE MASSACHUSETTS SUBSTANCE LIST IS SHOWN IN SECTION II OF THIS MSDS. ANY LISTED CHEMICALS NOT

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 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

THIS INFORMATION IS ACCURATE AND RELIABLE TO THE BEST OF OUR KNOWLEDGE.

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