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## [MATERIAL SAFETY DATA SHEET (MSDS)]

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### SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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AUTHORIZED BY MDL FOR INTERNAL USE ONLY. FOR EXTERNAL USE, SEE SECTION 16.

FIRST COLOR CO., LTD.  
1236-1, JEUNGWANG-DONG, SHIHUNG  
KYOUNGGI-DO, KOREA

EMERGENCY TELEPHONE NUMBER:  
TEL : 82-31-432-6977  
FAX : 82-31-432-6329

SUBSTANCE: COPPER POLYCHLOROPHTHALOCYANINE GREEN

TRADE NAMES/SYNONYMS: FIRST GREEN G-EX

GREEN 7; C.I. PIGMENT 74260; C.I. 74260 COPPER PHTHALOCYANINE GREEN; PIGMENT GREEN 7; OHS18865; RTECS GE4300000

CHEMICAL FAMILY: aromatic, carboxylic acids, cyanates

CREATION DATE: May 16 1989

REVISION DATE: Jun 17 2007

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### SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

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COMPONENT: COPPER POLYCHLOROPHTHALOCYANINE GREEN

CAS NUMBER: 1328-53-6

EC NUMBER (EINECS): 215-524-7

PERCENTAGE: 100.0

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### SECTION 3      HAZARDS IDENTIFICATION

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NFPA RATINGS (SCALE 0-4):    HEALTH=1    FIRE=1    REACTIVITY=0

EC CLASSIFICATION (CALCULATED): Not determined.

#### EMERGENCY OVERVIEW:

COLOR: green

PHYSICAL FORM: powder

ODOR: odorless

MAJOR HEALTH HAZARDS: No significant target effects reported.

PHYSICAL HAZARDS: Dust/air mixtures may ignite or explode.

#### POTENTIAL HEALTH EFFECTS:

##### INHALATION:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: no information is available

##### SKIN CONTACT:

SHORT TERM EXPOSURE: mild irritation

LONG TERM EXPOSURE: no information is available

##### EYE CONTACT:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: no information is available

##### INGESTION:

SHORT TERM EXPOSURE: no information on significant adverse effects

LONG TERM EXPOSURE: no information is available

#### CARCINOGEN STATUS:

OSHA: N

NTP: N

IARC: N

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### SECTION 4      FIRST AID MEASURES

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INHALATION: Remove from exposure immediately. Use a bag valve mask or similar device to perform artificial respiration (rescue breathing) if needed. Get medical attention.

**SKIN CONTACT:** Remove contaminated clothing, jewelry, 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, if needed.

**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. Get medical attention immediately.

**INGESTION:** If vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention, if needed.

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## SECTION 5 FIRE FIGHTING MEASURES

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**FIRE AND EXPLOSION HAZARDS:** Slight fire hazard. Dust/air mixtures may ignite or explode.

**EXTINGUISHING MEDIA:** regular dry chemical, carbon dioxide, water, regular foam

Large fires: Use regular foam or flood with fine water spray.

**FIRE FIGHTING:** Move container from fire area if it can be done without risk.

Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

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## SECTION 6 ACCIDENTAL RELEASE MEASURES

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**OCCUPATIONAL RELEASE:**

Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

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## SECTION 7      HANDLING AND STORAGE

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Store and handle in accordance with all current regulations and standards.  
Keep separated from incompatible substances.

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## SECTION 8      EXPOSURE CONTROLS, PERSONAL PROTECTION

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### EXPOSURE LIMITS:

#### COPPER POLYCHLOROPHTHALOCYANINE GREEN:

No occupational exposure limits established.

**VENTILATION:** Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**EYE PROTECTION:** Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**CLOTHING:** Wear appropriate chemical resistant clothing.

**GLOVES:** Wear appropriate chemical resistant gloves.

**RESPIRATOR:** Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

Any dust and mist respirator with a full facepiece.

Any air-purifying respirator with a full facepiece and a high-efficiency particulate filter.

Any powered, air-purifying respirator with a full facepiece and a high-efficiency particulate filter.

**For Unknown Concentrations or Immediately Dangerous to Life or Health -**

Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.

Any self-contained breathing apparatus with a full facepiece.

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SECTION 9      PHYSICAL AND CHEMICAL PROPERTIES

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PHYSICAL STATE: solid

COLOR: green

PHYSICAL FORM: powder

ODOR: odorless

MOLECULAR WEIGHT: 1082-1127

MOLECULAR FORMULA: C32-O(0-1)-N8-CL(15-16)-CU

BOILING POINT: Not applicable

MELTING POINT: Not available

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

SPECIFIC GRAVITY (water=1): 2.13

WATER SOLUBILITY: insoluble

PH: Not applicable

VOLATILITY: Not applicable

ODOR THRESHOLD: Not available

EVAPORATION RATE: Not applicable

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

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SECTION 10      STABILITY AND REACTIVITY

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REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition.

Avoid contact with incompatible materials.

INCOMPATIBILITIES: oxidizing materials

COPPER POLYCHLOROPHTHALOCYANINE GREEN:

OXIDIZERS (STRONG): Fire and explosion hazard.

HAZARDOUS DECOMPOSITION:

Thermal decomposition products: cyanides, oxides of carbon, nitrogen

POLYMERIZATION: Will not polymerize.

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SECTION 11 TOXICOLOGICAL INFORMATION

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COPPER POLYCHLOROPHTHALOCYANINE GREEN:

MUTAGENIC DATA:

mutation in microorganisms - Salmonella typhimurium 3333 ug/plate (-S9)

HEALTH EFFECTS:

INHALATION:

ACUTE EXPOSURE:

COPPER POLYCHLOROPHTHALOCYANINE GREEN: Dusts may be irritating to the mucous membranes.

CHRONIC EXPOSURE:

COPPER POLYCHLOROPHTHALOCYANINE GREEN: No data available.

SKIN CONTACT:

ACUTE EXPOSURE:

COPPER POLYCHLOROPHTHALOCYANINE GREEN: May be slightly irritating.

CHRONIC EXPOSURE:

COPPER POLYCHLOROPHTHALOCYANINE GREEN: No data available.

EYE CONTACT:

ACUTE EXPOSURE:

COPPER POLYCHLOROPHTHALOCYANINE GREEN: May be irritating.

CHRONIC EXPOSURE:

COPPER POLYCHLOROPHTHALOCYANINE GREEN: No data available.

INGESTION:

ACUTE EXPOSURE:

COPPER POLYCHLOROPHTHALOCYANINE GREEN: May result in gastric disturbances.

CHRONIC EXPOSURE:

COPPER POLYCHLOROPHTHALOCYANINE GREEN: No data available.

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SECTION 12      ECOLOGICAL INFORMATION

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Not available

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SECTION 13      DISPOSAL CONSIDERATIONS

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Dispose in accordance with all applicable regulations.

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SECTION 14      TRANSPORT INFORMATION

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No classification assigned.

LAND TRANSPORT ADR/RID: No classification assigned.

AIR TRANSPORT IATA/ICAO: No classification assigned.

MARITIME TRANSPORT IMDG: No classification assigned.

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SECTION 15      REGULATORY INFORMATION

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U.S. REGULATIONS:

TSCA INVENTORY STATUS: Y

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

CERCLA SECTION 103 (40CFR302.4): N

SARA SECTION 302 (40CFR355.30): N

SARA SECTION 304 (40CFR355.40): N

SARA SECTION 313 (40CFR372.65): N

SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):

ACUTE: N

CHRONIC: N

FIRE: N

REACTIVE: N

SUDDEN RELEASE: N

OSHA PROCESS SAFETY (29CFR1910.119): N

STATE REGULATIONS:

California Proposition 65: N

EUROPEAN REGULATIONS:

EC NUMBER (EINECS): 215-524-7

GERMAN REGULATIONS:

WATER HAZARD CLASS (WGK): 1 (Self Classification by Manufacturers and Distributors)

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SECTION 16    OTHER INFORMATION

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