

---

# [MATERIAL SAFETY DATA SHEET (MSDS)]

---

---

## SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

---

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: C.I. PIGMENT RED 57:1 CALCIUM SALT

TRADE NAMES/SYNONYMS : CARMINE 6B-579

C.I. PIGMENT RED 57:1, CALCIUM SALT (1:1); C.I.  
PIGMENT RED 57:1; C18H14CAN206S; OHS18874

CHEMICAL FAMILY: azo

CREATION DATE: Feb 27 1990

REVISION DATE: Mar 07 2007

---

## SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

---

COMPONENT: C.I. PIGMENT RED 57 CALCIUM SALT

CAS NUMBER: 5281-04-9

EC NUMBER (EINECS): 226-109-5

PERCENTAGE: >96.0

COMPONENT: WATER

CAS NUMBER: 7732-18-5

EC NUMBER (EINECS): 231-791-2

PERCENTAGE: <4.0

---

SECTION 3      HAZARDS IDENTIFICATION

---

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

EC CLASSIFICATION (CALCULATED): No classification assigned.

EMERGENCY OVERVIEW:

PHYSICAL FORM: powder

MAJOR HEALTH HAZARDS: No significant target effects reported.

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

POTENTIAL HEALTH EFFECTS:

INHALATION:

SHORT TERM EXPOSURE: no information on significant adverse effects

LONG TERM EXPOSURE: no information on significant adverse effects

SKIN CONTACT:

SHORT TERM EXPOSURE: same as effects reported in short term ingestion

LONG TERM EXPOSURE: no information on significant adverse effects

EYE CONTACT:

SHORT TERM EXPOSURE: no information on significant adverse effects

LONG TERM EXPOSURE: no information on significant adverse effects

INGESTION:

SHORT TERM EXPOSURE: nausea, vomiting, diarrhea, stomach pain

LONG TERM EXPOSURE: no information on significant adverse effects

CARCINOGEN STATUS:

OSHA: N

NTP: N

IARC: N

---

SECTION 4      FIRST AID MEASURES

---

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.

---

## SECTION 5 FIRE FIGHTING MEASURES

---

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.

---

## SECTION 6 ACCIDENTAL RELEASE MEASURES

---

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.

---

## SECTION 7 HANDLING AND STORAGE

---

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

---

SECTION 8      EXPOSURE CONTROLS, PERSONAL PROTECTION

---

EXPOSURE LIMITS:

C.I. PIGMENT RED 57 CALCIUM SALT:

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.

---

SECTION 9      PHYSICAL AND CHEMICAL PROPERTIES

---

PHYSICAL STATE: solid  
PHYSICAL FORM: powder  
ODOR: Not available  
MOLECULAR WEIGHT: 426.46  
MOLECULAR FORMULA: C18-H14-N2-O6-S.CA  
BOILING POINT: Not applicable  
MELTING POINT: Not available  
VAPOR PRESSURE: Not applicable  
VAPOR DENSITY: Not applicable  
SPECIFIC GRAVITY: Not available  
WATER SOLUBILITY: <3.5%  
PH: Not applicable  
VOLATILITY: Not applicable  
ODOR THRESHOLD: Not available  
EVAPORATION RATE: Not applicable  
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

---

## SECTION 10 STABILITY AND REACTIVITY

---

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

HAZARDOUS DECOMPOSITION:

Thermal decomposition products: oxides of carbon, nitrogen, sulfur  
POLYMERIZATION: Will not polymerize.

---

## SECTION 11 TOXICOLOGICAL INFORMATION

---

Not available

---

SECTION 12    ECOLOGICAL INFORMATION

---

Not available

---

SECTION 13    DISPOSAL CONSIDERATIONS

---

Dispose in accordance with all applicable regulations.

---

SECTION 14    TRANSPORT INFORMATION

---

No classification assigned.

---

SECTION 15    REGULATORY INFORMATION

---

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): 226-109-5

---

SECTION 16 OTHER INFORMATION

---

A backslash in the left margin indicates an amendment from the previous version.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties.

Recipients of our product must take responsibility for observing existing laws and Regulations.