[MATERIAL SAFETY DATA SHEET (MSDS)]		
	CHEMICAL PRODUCT AND (	COMPANY IDENTIFICATION
AUTHORIZEI	O BY MDL FOR INTERNAL USE	ONLY. FOR EXTERNAL USE, SEE SECTION 16
FIRST COLOR	R CO., LTD.	EMERGENCY TELEPHONE NUMBER:
1236-1, JUNG	WANG-DONG, SHIHUNG,	TEL: 82-31-432-6977
KYOUNGGI-I	OO, KOREA	FAX: 82-31-432-6329
SUBSTANCE:	C.I. PIGMENT RED 48:4	
TRADE NAM	ES/SYNONYMS: FIRST RED BL-	SM
CHEMICAL F	AMILY: azo	
CREATION D	ATE: Apr 27 1992	
REVISION DA	ATE: Jun 17 2007	
SECTION 2	COMPOSITION, INFORMATIO	ON ON INGREDIENTS
COMPONENT	T: C.I. PIGMENT RED 48:4	
CAS NUMBEI		
EC NUMBER	(EINECS): 226-102-7	
PERCENTAGI	E: 100.0	
SECTION 3	HAZARDS IDENTIFICATION	

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

EC CLASSIFICATION (CALCULATED): Not determined.

#### **EMERGENCY OVERVIEW:**

COLOR: red

PHYSICAL FORM: solid

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 is available

## SKIN CONTACT:

SHORT TERM EXPOSURE: no information on significant adverse effects

LONG TERM EXPOSURE: no information is available

#### **EYE CONTACT:**

SHORT TERM EXPOSURE: no information is available LONG TERM EXPOSURE: no information is available

#### **INGESTION:**

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

LONG TERM EXPOSURE: no information is available

#### **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.

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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.

#### 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 fr	com incompatible substances.		
SECTION 8	EXPOSURE CONTROLS, PERSONAL PROTECTION		

#### **EXPOSURE LIMITS:**

#### C.I. PIGMENT RED 48:4:

No occupational exposure limits established.

VENTILATION: Provide local exhaust ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. 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, mist, and fume respirator.

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

Any powered, air-purifying respirator with a dust, mist, and fume filter.

Any powered, air-purifying respirator with 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

COLOR: red

ODOR: Not available

BOILING POINT: Not applicable MELTING POINT: Not available VAPOR PRESSURE: Not applicable VAPOR DENSITY: Not applicable SPECIFIC GRAVITY: Not available WATER SOLUBILITY: Not available

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

C.I. PIGMENT RED 48:4:

OXIDIZERS (STRONG): Fire and explosion hazard.

HAZARDOUS DECOMPOSITION:

Thermal decomposition products: oxides of carbon, nitrogen

POLYMERIZATION: Will not polymerize.

SECTION 11 TOXICOLOGICAL INFORMATION

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# C.I. PIGMENT RED 48:4: ADDITIONAL DATA: May cross react with similar compounds. **HEALTH EFFECTS:** INHALATION: C.I. PIGMENT RED 48: 4: **ACUTE EXPOSURE:** C.I. PIGMENT RED 48: Some azo dyes cause irritation. CHRONIC EXPOSURE: C.I. PIGMENT RED 48: No data available. SKIN CONTACT: C.I. PIGMENT RED 48: 4: **ACUTE EXPOSURE:** C.I. PIGMENT RED 48: Some azo dyes cause allergic contact dermatitis. CHRONIC EXPOSURE: C.I. PIGMENT RED 48: No data available. EYE CONTACT: C.I. PIGMENT RED 48: 4: **ACUTE EXPOSURE:** C.I. PIGMENT RED 48: No data available. CHRONIC EXPOSURE: C.I. PIGMENT RED 48: No data available.

# INGESTION:

C.I. PIGMENT RED 48: 4:

#### **ACUTE EXPOSURE:**

C.I. PIGMENT RED 48: Some azo dyes cause nausea, vomiting, abdominal pain, diarrhea, fever, general malaise, and hypotension.

#### CHRONIC EXPOSURE:

SECTION 12	ECOLOGICAL INFORMATION
Not available	
SECTION 13	DISPOSAL CONSIDERATIONS
Dispose in accor	rdance with all applicable regulations.
SECTION 14	TRANSPORT INFORMATION
No classification	n assigned.
LAND TRANSI	PORT ADR/RID: No classification assigned.
AIR TRANSPO	RT IATA/ICAO: No classification assigned.
MARITIME TR	ANSPORT IMDG: No classification assigned.
SECTION 15	REGULATORY INFORMATION
U.S. REGULAT TSCA INVEN	TIONS: NTORY STATUS: Y
CERCLA SECTION SARA SECTION SAR	EXPORT NOTIFICATION: Not listed.  CTION 103 (40CFR302.4): N  ION 302 (40CFR355.30): N  ION 304 (40CFR355.40): N
	ION 313 (40CFR372.65): N ARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):

C.I. PIGMENT RED 48: No data available.

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): 226-102-7

# **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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A backslash is the left and 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.