
[MATERIAL SAFETY DATA SHEET (MSDS)]

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER'S NAME : FIRST COLOR CO.,LTD.
1236-1, JUNGWANG-DONG,
SHIHUNG, KYOUNGGI-DO,
KOREA.

TEL : 82-31-432-6977
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SUBSTANCE: C.I. PIGMENT YELLOW 13

TRADE NAMES/SYNONYMS : FIRST YELLOW HMX-300

PIGMENT YELLOW 13;

CHEMICAL FAMILY: azo

CREATION DATE: Feb 28 1992

REVISION DATE: Jun 09 2007

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: C.I. PIGMENT YELLOW 13

CAS NUMBER: 5102-83-0

EC NUMBER (EINECS): 225-822-9

PERCENTAGE: 100.0

SECTION 3 HAZARDS IDENTIFICATION

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

EC CLASSIFICATION (CALCULATED): No classification assigned.

EMERGENCY OVERVIEW:

COLOR: yellow

PHYSICAL FORM: solid

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: no information on significant adverse effects

LONG TERM EXPOSURE: no information is available

EYE CONTACT:

SHORT TERM EXPOSURE: no information on significant adverse effects

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.

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.

AUTOIGNITION: >212 F (>100 C)

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.
Store in a tightly closed container. Keep separated from incompatible substances.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS:

C.I. PIGMENT YELLOW 13:

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: yellow

ODOR: odorless

MOLECULAR WEIGHT: 685.59

MOLECULAR FORMULA: C₃₆-H₃₄-CL₂-N₆-O₄

BOILING POINT: Not applicable

MELTING POINT: Not available

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

SPECIFIC GRAVITY (water=1): 1.2

WATER SOLUBILITY: insoluble

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

C.I. PIGMENT YELLOW 13:

OXIDIZERS (STRONG): Fire and explosion hazard.

HAZARDOUS DECOMPOSITION:

Thermal decomposition products: oxides of carbon, nitrogen, acid halides

POLYMERIZATION: Will not polymerize.

SECTION 11 TOXICOLOGICAL INFORMATION

C.I. PIGMENT YELLOW 13:

IRRITATION DATA:

500 mg/24 hour(s) skin-rabbit mild

TOXICITY DATA:

>5 gm/kg oral-mouse LD50 (Galaxie Chemicals); >5 gm/kg oral-rat LD50; 410

mg/m³/6 hour(s)-21 day(s) intermittent inhalation-rat TCLo

ACUTE TOXICITY LEVEL: Insufficient Data.

ADDITIONAL DATA: May cross react with similar compounds.

HEALTH EFFECTS:

INHALATION:

ACUTE EXPOSURE:

C.I. PIGMENT YELLOW 13: No specific data available. Some azo dyes may cause irritation.

CHRONIC EXPOSURE:

C.I. PIGMENT YELLOW 13: No data available.

SKIN CONTACT:

ACUTE EXPOSURE:

C.I. PIGMENT YELLOW 13: Reported to be non-irritating to rabbit skin.

CHRONIC EXPOSURE:

C.I. PIGMENT YELLOW 13: No data available.

EYE CONTACT:

ACUTE EXPOSURE:

C.I. PIGMENT YELLOW 13: Reported to be non-irritating to rabbit eyes.

CHRONIC EXPOSURE:

C.I. PIGMENT YELLOW 13: No data available.

INGESTION:

ACUTE EXPOSURE:

C.I. PIGMENT YELLOW 13: The lethal dose reported in rats was >5 gm/kg.

Some azo dyes may cause nausea, vomiting, abdominal pain, diarrhea, fever, general malaise, and hypotension.

CHRONIC EXPOSURE:

C.I. PIGMENT YELLOW 13: No data 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.

LAND TRANSPORT ADR/RID: No classification assigned.

AIR TRANSPORT IATA/ICAO: No classification assigned.

MARITIME TRANSPORT IMDG: 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): 225-822-9

GERMAN REGULATIONS:

WATER HAZARD CLASS (WGK): 0 (Self Classification by Manufacturers and Distributors)

SECTION 16 OTHER INFORMATION

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.