QINGDAO SANHUAN COLORCHEM CO., LTD.

17 FLOOR, YUHENG BUILDING, NO.170 XUZHOU NORTH ROAD, QINGDAO, CHINA
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MATERIAL SAFETY DATA SHEET

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: PIGMENT RED 81
Chemical Formula: $C_{28}H_{31}N_2O_3$ xUnspecified
Molecular Weight: 2261.98
CAS No.: 12224-98-5
Manufacturer Identification:
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Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Content%	Hazardous
PIGMENT RED 81	12224-98-5	100	No

Section 3 - HAZARDS IDENTIFICATION

NFPA PATINGS(SCALE 0-4): HEALTH=1 FIRE=1 REACTIVITY=0
EC CLASSIFICATION(CALCULATED): NO classification assigned.
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

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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

Handle and store in accodance with all current regulations and standards. Store in a tightly closed dry container and keep in a ventilated, cool and dry place, avoid to contact with acid material and expose to air. Keep away from sources of ignition, refrain from smoking.

Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS: 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.
CLOTHING: Wearing appropriate chemical resistant clothing.
EYE PROTECTION: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
HAND PROTECTON:: Wear appropriate chemical resistant gloves.
RESPIRATORY PROTECTION: Use any air-purifying respirator with filter.

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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

FORM	POWDER
COLOUR	RED
ODOUR	ODOURLESS
MELTING POINT/RANGE	NOT APPLICABLE
DENSITY	1.70（H_2O=1）
WATER SOLUBILITY	INSOLUBLE
VAPOUR PRESSURE	NOT APPLICABLE
PH	6.5-7.5
VISCOSITY	NOT APPLICABLE
EXPLOSIVE PROPERTIES	NOT TESTED

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
OXIDIZERS(STRONG):Fire and explosion hazard.
HAZARDOUS DECOMPOSIION:Thermal decomposition products:oxides of carbon, nitrogen.
POLYMERIZATION:Will not polymerize

Section 11 - TOXICOLOGICAL INFORMATION

TOXICITY DATA:>5000mg/kg oral-mouse LD 50
ACUTE TOXICITY LEVEL: Insufficient Data.
ADDITIONAL DATA: May cross react with similar compounds.
HEALTH EFFECTS:
INHALATION:Acute Exposure:No specific data available. Some azo dyes may cause irritation.
Chronic Exposure: No data available.
SKIN CONTACT: Acute exposure:reported to be non-irritating to rabbits. Some azo dyes may cause allergic contact dermatitis.
Chronic Exposure: No data available.
EYE CONTACT: Acute exposure: reported to be non-irritating to rabbits.
Chronic Exposure: No data available.
INGESTION: Acute Exposure: The LD50 for rats was >5000 mg/kg. Some azo dyes cause nausea, vomiting, abdominal pain, diarrhea, fever, general malaise, and hypotension.
Chronic Exposure: No data available.

Section 12 - ECOLOGICAL INFORMATION

ECOTOXICITY DATA:
FISH TOXICTY: 45000 ug/L 48 year(s) LC50(Mortality) Ide, silver or golden

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orfe(Leuciscus idus)

Section 13 - DISPOSAL CONSIDERATIONS

Dispose in accordance with current regulations. May be taken to waste disposal site or incineration plant after consulation with site operator and/or with the responsible authority.

Section 14 - TRANSPORT INFORMATION

LAND TRANSPORT ADR/GGVS/RID/GGVE: Non-hazardous goods.
INLAND WATERWAY TRANSPORT ANDR: Non-hazardous goods.
MARINE TRANSPORT IMDG: Non-hazardous goods.
AIR TRANSPORT IATA/ICAO: Non-hazardous goods.
DISPATCH BY POST: Permitted.

Section 15 - REGULATORY INFORMATION

U.S. REGULATIONS:
TSCA INVENTORY STATUS:Y
TSCA 12(b) EXPORT NOTIFICATION: N
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): 219-730-8
GERMAN REGULATIONS:
WATER HAZARD CLASS(WGK): 1 (Official German Classification)
WATER HAZARD CLASS(WGK): 0（Self Classification by Manufacturers and Distributors）

Section 16 - ADDITIONAL INFORMATION

THIS PRODUCT MUST BE STORED, HANDLED AND USED ACCORDING TO THE STANDARDS OF HYGIENE AND SAFETY OF GOOD INDUSTRIAL PRACTISE AND IN CONFORMITY WITH THE APPLICABLE LEGAL STANDARDS.
THE ABOVE DATA IS BASED ON PRESENT INFORMATION AND EXPERENCE AND IS INTENDED TO DESCRIBE THE PRODUCT FROM THE POINT OF VIEW OF SAFETY REQUIREMENT. IT IS NOT TO BE CONSIDERED AS A GUARANTEE OF SPECIFIC PROPERTIES.