

Zinc Chromate Pigment

According to EC Directive 91/155/EEC

1. Identification

Product: Pigment Yellow 36

Product Name(s): Zinc Chromate

C.I. No. 77955, **CAS No.** 37300-23-5

Manufacturer/Supplier Identification

Manufacturer/Supplier: Formula Chemicals Co., Ltd.

Emergency telephone number: +886-922582639; +886-2-26685339

2. Hazards Identification

R-phrases(s): Flammable (R10, R51/53, R65)

S-phrases(s): Do not breathe spray (S23, S38)

Symbol(s): Xn, N

3. Composition / Information on Ingredients

Chemical characterization:

C.I. Pigment Yellow 36

Chemical Name	CAS Number	Percentage (%)
Zinc Chromate	37300-23-5	100

4. Emergency and First Aid Procedure

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

If on skin:

Wash thoroughly with soap and water.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.

5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: dry powder, foam

Unsuitable extinguishing media for safety reasons: carbon dioxide

Special hazards arising from the substance or mixture

Hazards during fire-fighting: harmful vapors

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Impact Sensitivity:

Product is not explosive when subjected to mechanical impact.

Further information:

Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing.

Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains / surface waters / groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of. Avoid raising dust.

7. Handling and Storage

Precautions for safe handling

Breathing must be protected when large quantities are decanted without local exhaust ventilation. Closed containers should only be opened in well-ventilated areas.

Protection against fire and explosion: Avoid dust formation. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

8. Exposure/ Protection method

Respiratory Protection: Dust Respirators recommended when handling pigment dusting.

Ventilation: Local exhaust ventilation recommended to controlling dust exposure, protective gloves are recommended.

Skin Contact: Protective gloves recommended.

Eye Protection: Safety glasses or goggles recommended.

9. Physical and Chemical Data**Form:** Solid**Appearance:** Powder**Color:** Yellow**Odor:** Mild Aromatic**Flash Point:** 38C**Specific Gravity:** 3.4~4.7**Solubility in water:** Insoluble (20°C)**PH:** 6

10. Stability and Reactivity**Conditions to Avoid**

Avoid temperature above 60C, direct sun light, and contact with source of heat.

Hazardous Reaction

Keep away from oxidizing agents, strong alkaline / acidic materials in order to avoid exothermic reactions.

Hazardous decomposition products: Carbon dioxide (CO₂), Carbon monoxide (CO), Oxides of nitrogen (Nox).

11. Toxicological Data:**Primary routes of exposure**

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/EffectsAcute toxicity

Assessment of acute toxicity: Nontoxic after a single skin contact. Nontoxic by inhalation. Nontoxic after a single ingestion.

Oral

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg

Inhalation

Type of value: LC50

not determined

Dermal

Type of value: LD50

not determined

Irritation / corrosion

Assessment of irritating effects: Not irritating to eyes and skin.

Skin

Species: rabbit Result: non-irritant

Method: OECD Guideline 404

Eye

Species: rabbit Result: non-irritant

Method: OECD Guideline 405

Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies. The product has not been tested. The statement has been derived from the properties of the individual components.

Species: guinea pig

Result: Non-sensitizing.

Method: OECD Guideline 406

Aspiration Hazard

Not applicable

Chronic Toxicity/EffectsGenetic toxicity

Assessment of mutagenicity: No mutagenic effects reported.

Carcinogenicity

Assessment of carcinogenicity: None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

Reproductive toxicity

Assessment of reproduction toxicity: No reproductive toxic effects reported.

Teratogenicity

Assessment of teratogenicity: No teratogenic effects reported.

12. Ecological Information

The product should not be allowed to enter drains or waterways.

Mobility: Non-volatile. Insoluble in water. Floats on water.

Persistence and degradability: Not biodegradable.

Bio-accumulative potential: No data available.

Environmental toxic data: No data available

13. Disposal Considerations

Product: The product should not be allowed to enter drains, water course, or the soil.

Unclean packing: Packing that cannot be cleaned should be disposed of by special disposal. Do not empty into waters or drains.

14. Transport Data

Land transport ADR/RID: Class: 3/3lc, UN no.: 1263, ADR/RID label: 3

Maritime transport IMDG/GGVSea: Class: 3.3, UN no.: 1263, IMDG label: 3, EmS: 3-05, MFAG: 310, Marine Pollutant: P, IMDG page: 3372, Packaging group: III

Air transport ICAO-TI and IATA-DGR: Class: 3, Sub risks, UN no.: 1263, Packaging group: III

15. Regulatory Information

R-Phrases: R10 Flammable

S-Phrases: S23 Do not breathe spray, S38 In case of insufficient ventilation, wear respiratory equipment.

16. Other Information

This data sheet was prepared in accordance with Directive 91/155/EEC.

MSDS Prepared by: Formula Chemicals Documentation Department.

MSDS Version / Prepared or Revised on: Version 2.0 2019/01/08

The information presented has been compiled from sources considered to be dependable and is accurate to the best of Formula Chemicals' knowledge; however, Formula Chemicals makes no warranty regarding the accuracy of such data or the results to be obtained from use.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.