Material Safety Data Sheet

1. Identification

Product identifier used on the label

COMPERF Yellow
1201K/1202K/1203K/1204K/2201K/2202K/2203K/2204K/3201K/3202K/3203K/3204K

Recommended use of the chemical and restriction on use

Recommended use*: colorant(s)
Suitable for industrial use only: coatings, plastics processing industry

* The "Recommended use" identified for this product is not part of the seller's published specification. The terms of this Material Safety Data Sheet (MSDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

FINELAND CHEM CO., LIMITED
XIANGGONG VILLAGE,HEZHUANG TOWN, XIAOSHAN DISTRICT,HANGZHOU,CHINA
Telephone: 0086-571-83531793
E-mail: hfchemical@yahoo.com

Emergency telephone number

International emergency number:
Telephone: 0086-571-83531793

Other means of identification

Molecular formula:	$(Ti,Cr,Sb)O_2$
Chemical family:	Complex Inorganic Color Pigment
Synonyms:	C.I. Pigment Brown 24, C.I. 77310

2. Hazards Identification

According to Regulation (EC) No 1272/2008 [CLP]

Classification of the product

No need for classification according to GHS criteria for this product.

Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

Emergency overview

NOTICE:
May cause mechanical irritation to eyes, skin and respiratory system.
AVOID CREATING DUST.
Avoid inhalation of dusts.
Use with local exhaust ventilation.
Wear a NIOSH-certified (or equivalent) particulate respirator.
Wear NIOSH-certified chemical goggles.
Wear protective clothing.

3. Composition / Information on Ingredients

Substances

CAS Number	EINECS Number	Content (W/W)	Chemical name
68186-90-3	269-052-1	99.0-100.0 %	Chrome antimony titanium buff rutile

The complex inorganic color pigment in this product is made by high temperature fusion. Due to resulting unique structure, the fired pigment will not necessarily exhibit the same properties as the component oxides or metals in their pure state.

Mixtures

Not applicable

4. First-Aid Measures

Description of first aid measures

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 irritation develops, seek medical attention.

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek medical attention.

If swallowed:
Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Seek medical attention if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant reaction of the human body to the product known.

Indication of any immediate medical attention and special treatment needed

Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting 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:
No particular hazards known.

Advice for fire-fighters

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:
The degree of risk is governed by the burning substance and the fire conditions.
Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing.

Ensure adequate ventilation.

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.

Protection against fire and explosion: No special precautions necessary.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

Chrome antimony titanium buff rutile : TWA value 0.5 mg/m3 (ACGIH/TLV)
CAS No. 68186-90-3

Advice on system design:
Provide local exhaust ventilation to control dust.

Personal protective equipment

Respiratory protection:
Wear respiratory protection if ventilation is inadequate. Observe OSHA regulations for respirator use

Hand protection:
Chemical resistant protective gloves

Eye protection:
Safety glasses with side-shields.

General safety and hygiene measures:
Handle in accordance with good industrial hygiene and safety practice. Due to the coloring properties of the product closed work clothes should be used, to avoid stains during manipulation. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and Chemical Properties

Form:	Powder
Odor:	Odorless
Odor threshold:	Not applicable, odor not perceivable
Color:	Yellow
pH value:	6 - 9
Melting point:	>1,000 °C
Boiling point:	Not applicable
Flash point:	Study does not need to be conducted.
Flammability:	not flammable
Lower explosion limit:	For solids not relevant for classification and labelling
Upper explosion limit:	For solids not relevant for classification and labelling
Autoignition:	Not applicable
Vapor pressure:	Not applicable
Density:	4.5 g/cm^3 (20 °C) (DIN EN ISO 787-10)
Relative density:	4.5 (20 °C)

Bulk density:	Approx. 700 kg/m^3
Vapor density:	The product is a non-volatile solid.
Partitioning coefficient n-octanol/water (log Kow):	Not applicable.
Self-ignition temperature:	Not self-igniting
Thermal decomposition:	No decomposition if correctly stored and handled.
Viscosity, dynamic:	Study does not need to be conducted.
Viscosity, kinematic:	Study does not need to be conducted.
Solubility in water:	Insoluble
Evaporation rate:	The product is a non-volatile solid.

10. Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions
No hazardous reactions when stored and handled according to instructions.
The product is chemically stable.

Conditions to avoid
Avoid dust formation. Avoid deposition of dust. See MSDS section 7 - Handling and storage.

Incompatible materials
No substances known that should be avoided.

Hazardous decomposition products

Decomposition products:
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
No decomposition if correctly stored and handled.

11. Toxicological information

Acute Toxicity/Effects

Acute toxicity
Assessment of acute toxicity: Virtually nontoxic after a single ingestion.

Oral
Type of value: LD50
Species: rat
Value: > 10,000 mg/kg (OECD Guideline 401)

Inhalation
Study scientifically not justified.

Dermal
Study scientifically not justified.

Irritation / corrosion
Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

Skin
Species: rabbit
Result: non-irritant
Method: Draize test
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Eye
Species: rabbit
Result: non-irritant
Method: Draize test
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Sensitization
Assessment of sensitization:
Study scientifically not justified.

Aspiration Hazard
No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity
Assessment of repeated dose toxicity: Repeated oral uptake of the substance did not cause substance-related effects. The substance is inert. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Genetic toxicity
Assessment of mutagenicity: No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Carcinogenicity

Assessment of carcinogenicity: Study not necessary due to exposure considerations. The substance is inert.

Reproductive toxicity
Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The substance is inert. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Teratogenicity
Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies. The substance is inert. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Other Information
The product is insoluble in acids or alkalies.

Symptoms of Exposure

No significant reaction of the human body to the product known.

12. Ecological Information

Toxicity

Aquatic toxicity
Assessment of aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish
LC50 (96 h) > 10,000 mg/l, Leuciscus idus
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic invertebrates
EC50 (48 h) > 100 mg/l, Daphnia magna
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic plants
EC50 (72 h) > 100 mg/l, Scenedesmus subspicatus
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Chronic toxicity to fish
Study scientifically not justified.

Chronic toxicity to aquatic invertebrates
Study scientifically not justified.

Assessment of terrestrial toxicity
Study scientifically not justified.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms
Bacterium/EC10(30H): > 10,000 mg/l
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Persistence and degradability

Elimination information

Study technically not feasible.

Bioaccumulative potential

Assessment bioaccumulation potential
The product will not be readily bioavailable due to its consistency and insolubility in water.

Mobility in soil

Assessment transport between environmental compartments
Volatility: The substance will not evaporate into the atmosphere from the water surface.

Additional information

Adsorbable organically-bound halogen (AOX):
This product contains no organically-bound halogen.

The product contains heavy metals, which are firmly built in a matrix and are therefore not bioavailable. The local waste-water limit values are to be considered for the mentioned heavy metals. Discharge into the environment must be avoided.

13. Disposal considerations

Waste disposal of substance:
Dispose of in accordance with national, state and local regulations. Check for possible recycling.

Container disposal:
Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information

Land transport USDOT	Not classified as a dangerous good under transport regulations
Sea transport IMDG	Not classified as a dangerous good under transport regulations
Air transport IATA/ICAO	Not classified as a dangerous good under transport regulations

15. Regulatory Information

Inventory status

IECSC (China)	Listed
KECL(Korea)	Listed
ENCS(Japan)	Listed
PICCS(Philippines)	Listed
EINECS(EU)	Listed
TSCA(USA)	Listed
Labeling according to EEC Directives	Not Regulated

16. Other Information

MSDS Prepared by:

MSDS No.: PBR24000000-MSDS/EN

MSDS Prepared on: 2021/01/15

The data contained in this Material safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This Material safety data sheet is neither a Certificate of Analysis (COA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this Material safety data sheet do neither represent an agreement on the corresponding contractual quality of the substances/mixtures nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

END OF MATERIAL SAFETY DATA SHEET