



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product & Company Information

Chemical Product: C.I. Pigment Brown 24 (Chrome Antimony Titanium Buff Rutile)

Company Information : HUNAN JUFA TECHNOLOGY CO.,LTD

Room 104, Unit 2, No. 6 building

Long Feng Jia Yuan, Shaziling, Xiangtan,
Hunan, China.

Emergency telephone no: 0086-731-52345997

Section 2. Composition/Information on Ingredients

<u>Ingredients:</u>	<u>CAS No:</u>	<u>EINECS</u>	<u>% Weight(Typical)</u>
Chrome Antimony Titanium Buff Rutile	68186-90-3	269-052-1	100

Synonyms: C.I. Pigment Brown 24; C.I. Constitution #77310; CPMA #11-20-6

This product is the result of high temperature calcination of the component substances. Due to its unique crystalline structure the properties of this finished pigment do not necessarily reflect the properties of the component metals or oxides. **

Section 3. Hazards Identification

EEC Risk Phrases: This document has been prepared in accordance with 91/155/EC. This product is not classified as hazardous according to {NOHSC:2011(1994)}& OHS Regulations 1999.

EEC Safety Phrases: Not applicable

Methods for Cleanup: See Section XI for Toxicological Information.

Section 4. First Aid Measures

If inhaled: remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

On ingestion: If conscious, drink large quantities of water. Do Not induce vomiting. Get immediate medical attention.

NEVER give anything by mouth to an unconscious person.

On contact with eyes: flush eyes with plenty of water for at least fifteen (15) minutes. Call a physician.

On skin contact: wash thoroughly with soap and water.

Section 5. Fire Fighting Measures

Suitable extinguishing media:	This product will not burn. Use suitable extinguishing media for fighting surrounding fire.
Unsuitable extinguishing media:	Not applicable
Emitted when burned:	Not applicable
Special protective equipment:	This product will not burn. Use appropriate techniques for fighting surrounding fire.
Further information:	None

Section 6. Accidental Release Measures

Personal precautions:	Maintain appropriate dust control.
Environmental precautions:	Prevent contamination of soils, drains and surface water.
Methods for cleanup:	Transfer material into closed container for re-use or disposal.

Section 7. Handling and Storage

Handling:	Good housekeeping procedures should be followed to prevent dust during processing. Do not eat, drink or smoke in work areas. Wash thoroughly with soap and water after handling. Provide eye wash stations in areas of handling.
Storage:	Store material in a closed container. Normal warehousing.

Section 8. Exposure Controls/Personal Protection

Engineering controls/measures:	Use mechanical ventilation to keep dust below regulatory
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standards (see Section II). Design criteria usually cannot be specified in an MSDS because of its complexity.

Personal Protective Equipment:

Respiratory protection:

MSHA/NIOSH respirators approved for dusts TC-21C or NIOSH approved cartridges for Non-oil aerosols, N95, N99, N100 (42 CFR 84).

Hand protection:

Rubber, PVC coated gloves, impermeable.

Eye protection:

Safety Glasses with side shields, mono goggles.

Body protection:

No special precautions (see hand protection).

General safety and hygiene measures:

Good housekeeping procedures should be followed to prevent dust during processing.

As Regulated <u>(Related Exposure Limits)</u>	OSHA PEL <u>(mg/m³)</u>	ACGIH TLV <u>(mg/m³)</u>	%Metal <u>(Typical)</u>	Sara <u>313</u>
Antimony and compounds (as Sb)	0.5	0.5	10	Yes
Chromium (III) compounds (as Cr)	0.5	0.5	4	Yes

Section 9. Physical and Chemical Properties

Appearance:	Golden Yellow Powder
Odor:	No Odor
Melting point/melting range:	Not applicable
Boiling point/boiling range:	Not applicable
Flash point:	Not applicable
Combustibility:	Not applicable
Explosion limits:	
Lower Vol. %:	Not applicable
Upper Vol. %:	Not applicable
Ignition temperature:	Not applicable
Self-ignition:	Not applicable
Self-ignition temperature:	Not applicable
Explosion hazard:	Not applicable



Fire promoting properties:	Not applicable
Vapor pressure:	Not applicable
Specific gravity:	4.6 SCTM 312
Bulk density:	No data available
Packing density:	No data available
Solubility in Water:	Negligible
Solubility in other solvents:	Negligible
pH value:	8.5 SCTM 101 (6)
Octanol/water partition coefficient (log POW):	Not applicable
Viscosity:	Not applicable
Other information:	Not applicable

Section 10. Stability and Reactivity

Conditions to avoid:	None known
Materials to avoid:	None known
Hazardous reactions:	None known
Hazardous decomposition products:	None known

Section 11. Toxicological Information

Acute Toxicity

LD50/oral/rat:	>10,000 mg/kg (5)
LD50/inhal/rat:	Not Tested
Sensitizing:	None expected
Primary skin irritation/rabbit:	No data available
Primary mucous membrane irritation/rabbit' eyes:	No data available

ADDITIONAL INFORMATION:

Repeated overexposure to this compound may cause eye, skin and respiratory tract irritation. Some compounds of the metals used in the manufacturing of this pigment Antimony and Chromium, have demonstrated various toxic properties (1,2,3,4). However, there is no evidence that this pigment has these toxic characteristics.



Routes of Entry:

Eyes: No Skin: No Inhalation: Yes Ingestion: Yes

CARCINOGENICITY: NTP: No IARC Monographs: No

OSHA Regulated: No

Signs and Symptoms of Exposure: Irritation of the eyes, skin and respiratory tract.

Medical Conditions Generally Aggravated by Exposure: Respiratory and skin disorders aggravated by dust.

Section 12. Ecological Information

Mobility: No data available

Degradability: No data available

Accumulation: No data available

Short and long term effects on:

Ecotoxicity: No data available

Other adverse effects: No data available

Section 13. Disposal Considerations

Substance:

Dispose of at an approved landfill in accordance with local, state, federal and national regulations.

Contaminated packaging:

Dispose of at an approved landfill in accordance with local, state, federal and national regulations.

Section 14. Transport Information

Land transport: ADR/RID/GGVS/GGVE: Not Regulated

Sea transport: IMDG/GGVSee UN-No.: Not Regulated

Air transport: ICAO/IATA UN/ID-No.: Not Regulated

U.S. D.O.T. Classification: Not Regulated

CANADA Transport of dangerous goods: Not Regulated

Section 15. Regulatory Information



Labeling according to EEC Directives: Not Regulated

SARA

SARA 312:

Health:	Immediate (Acute):	No*	Fire:	None
	Delayed (Chronic):	No**	Reactivity:	None
			Sudden release of pressure:	None

*Not an acute hazard, however may cause irritation due to abrasiveness.

**These products are not classified as Carcinogens by the National Toxicology Program, the International Agency for Research on Cancer or the Occupational Safety and Health Administration. We do not know of any chronic health effect from these products. The finished pigment is a fine powder and may increase the risk of respiratory and skin disorders aggravated by dust.

SARA 313:

THIS PRODUCT CONTAINS A CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372. THIS INFORMATION MUST BE INCLUDED IN ALL MSDS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

100% Chromium Compound

100% Antimony Compound

Inventories

The ingredients of this product have been listed in the following inventories:

Australia AICS:	Listed	
Canada DSL:	Listed	
Europe EINECS:	Listed	269-052-1
Japan MITI:	Listed	
Korean:	Listed	KE-07865
Philippine Draft:	Listed	
U.S.A. TSCA:	Listed	

HMIS Code: 100

Section 16. Other Information

1. Occupational Health Guidelines for Chemical Hazards, Vol. I., OSHA, Sept., 1978.
2. Occupational Diseases "A Guide to Their Recognition", U.S. DHEW (NIOSH), June 1977.
3. Documentation of the Threshold Limit Values, 6th Edition, ACGIH, 1991.
4. Pocket Guide to Chemical Hazards, NIOSH/OSHA, June, 1997.

The information contained herein is based on the data available to use and is believe to be correct. However, HUNAN JUFA TECHNOLOGY CO.,LTD makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. It assumes no responsibility for injury from the use of the product described herein.

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JUFA PIGMENT