

Hangzhou Jiekai Chemicals Co., Ltd.

NO.227, SHIXIN BEILU RD, HANGZHOU, CHINA. Tel: 86-571-83710202 Web: www.jkpigment.com

Material Safety Data Sheet

According to 91/155/EEC and ISO 11014-1

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1. Identification of substance and of the company

Trade Name: PIGMENT RED 49:1
Hangzhou Jiekai Chemicals Co., Ltd.
NO.227, SHIXIN BEILU RD, XIAOSHAN DISTRICT, HANGZHOU, CHINA.
Tel: 86-571-83710202 Fax: 86-571-82163005

2. Composition/Data on components

Substance: PIGMENT RED 49:1
CAS No: 1103-38-4 EEC Symbol: None R-Phrases: None

3. Hazards identification

No hazardous effects known
The product is not a substance subject to mandatory marking in accordance with the EEC Directive 67/584/EEC Or amendments

4. First Aid measures

After inhalation: Supply fresh air.
After eye contact: Flush with plenty of pressure water for 15 minutes, occasionally raising eye lids.
After skin contact: Wash skin with mild soap and water.

5. Fire fighting measures

Suitable extinguishing media: no restriction
Special hazards caused by the material, its combustion products or resultant gases: none
Special personal protection equipment: none

6. Accidental release

Environmental protection conduct: Do not sweep or wash into public stretches of water, sewers or sites of unknown discharge paths.
After spillage/leakage/gas/ leakage: Clean up immediately with wetting or absorbent material avoiding dusting.

7. Handling and storage

Handling:
Usual precautions for nuisance dust should be observed.
Protection against fire and explosion:
The product is non-flammable
Storage:
Store in roofed places at room temperature Keep containers tightly sealed.
Flammability Class: nor applicable.

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8. Exposure controls/personal protection

Additional notes for design of plants equipment:

No farther details, see sec7

Components with workplace-related limits to be monitored:

| <u>Designation</u> | <u>%</u> | <u>Type of data</u> | <u>Unit</u> |
|--------------------|----------|---------------------|----------------------|
| Nuisance dust | 100 | MAK | 6 mg/m ³ |
| | | TLV/TWA(USA) | 10 mg/m ³ |

Personal protection equipment:

Respiratory protection:

An appropriate dust fixer has to be used if a breathable dust liberated.

9. Physical and chemical properties

Appearance: Red powder

Odor: mild

Melting point:

Relative density:1.8-1.9

Decomposition: None

Flammability: see 7handling

Molecular formula:C₂₀H₁₄N₂O₄S

Molecular Weight: 378.40

Tinting strength: 95-105% of the standard

Volatile matter at 105°C: 2.5% max

Soluble matter in water: 1.5% max

Oil absorption:45-55%

Fastness to light:4

Fastness to heat(°C):130

Bleeding resistance water: 4-5

Bleeding resistance linseed oil: 3

Bleeding resistance acid: 5

Bleeding resistance alkalis:5

Bleeding resistance alcohol:3

Bleeding resistance xylone:4

Bleeding resistance ethyl acetate: 4

10. Stability and reactivity

Hazardous decomposition products

No decomposition at proper storage and application conditions

11. Toxicological Information

Because of experience with product mentioned, there are no recognizable hazards for human beings, if it is correctly used and applied.

12. Ecological informatio

Avoid filtration into waster draining or soil.

13. Disposal considerations

Uses should acquaint themselves with local regulations.

Disposal is usually carried out by burying at an approved tip or by incineration by a licensed waste material processor; stack gases may need to be sorubbed (see section 5 above)

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14. Transport information

No declaration for transport required

15. Regulatory information

Classified according to the Directives 67/548/EEC, and their various amendments, and labeled as below:

Warning symbols: None

Warning words: None

Risk Phrases: None

Safety Phrases: None

16. Other information

Listed in EINECS and TSCA inventories.0

Intended uses: Paints.

References: -(1)Occupational Exposure Limits, EH/40(HSE)

-(2)Deutsche Forschungs gemeinschaft MAK-& BAT-Values.

-(3)A.C.D.Cowley, Polymers Paint Journal, August 7/21, 1985.