

SDS Report

No. SH10010223/ CHEM

Date: Feb. 22, 2010

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Client's name: KAPRO TOOLS (SUZHOU) LTD.
Client's address: NO. 5, YEJING ROAD, PANGJIN SOUTH SECTION, WUJIANG, SUZHOU, CHINA

SGS Ref No. : 10134148-4
Product Name: RED CHALK
End Uses: MARKING
Composition/Ingredient: diiron trioxide, Calcium Carbonate Heavy, Calcium Carbonate Light, magnesium carbonate.

Job Receiving Date: Feb.2, 2010
Preparation Period: Feb.4– 9, 2010

Service Requested

Safety Data Sheet for the Product

SUMMARY

The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006, EU Commission Directive 1999/45/EC, 67/548/EEC.

Signed for and on behalf of
SGS-CSTC Chemical Laboratory



Sandy Hao
Lab Manager

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Safety Data Sheet

1907/2006/EC

Printing date 22.02.2010

Revision: 05.02.2010

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** *Red Chalk*
- **Registration number:** *Not available*
- **Application of the substance / the preparation:** *Marking*
- **Manufacturer/Supplier:**
Kapro Tools (Suzhou) Ltd.
No. 5, Yejing Road, Pangjin South Section, Wujiang, Suzhou, China
Tel: 0512-63120969
Fax: 0512-63120959
- **Further information obtainable from:** *Kapro Tools (Suzhou) Ltd.*
- **Information in case of emergency:**
Nancy Tu
MP: 15151508574
- **Email:** *nancy@kapro.cn*
- **Reference number:** *10134148-4; SH10010223/CHEM*

2 Hazards identification

- **Hazard description:** *Not applicable.*
- **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:**
For the wording of the listed risk phases refer to section 16.
Mixture: consisting of the following components.
- **Dangerous components:** *Not applicable*

- **Non-dangerous component:**

CAS: 1309-37-1 EINECS: 215-168-2	diiron trioxide	47,5~52,5%
	Calcium Carbonate Heavy	20,3~24,7%
	Calcium Carbonate Light	20,3~24,7%
CAS: 546-93-0 EINECS: 208-915-9	magnesium carbonate	4~6%

- **Remark:**
diiron trioxide (CAS No. 1309-37-1)
synonym: Iron oxide

Calcium Carbonate Heavy
CAS No. 471-34-1

Calcium Carbonate Light
CAS No. 471-34-1

4 First aid measures

- **After inhalation:** *Supply fresh air; consult doctor in case of complaints.*
- **After skin contact:** *Wash with water and soap and rinse thoroughly.*

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- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse mouth with water.
Consult a physician.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation
Avoid dust formation.
Avoid breathing dust.
Avoid contact with eyes.
- **Measures for environmental protection:**
Do not allow to enter sewers/ surface or ground water.
Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:** Pick up mechanically.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Avoid formation of dust and aerosols.
Avoid breathing dust.
Avoid contact with eyes.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:**
Do not store together with acids.
Store away from foodstuffs.
Store away from water.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

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· Ingredients with limit values that require monitoring at the workplace:
1309-37-1 diiron trioxide

WEL (Great Britain)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ (as Fe)
PEL (America)	10 mg/m ³ Fume
REL (America)	5 mg/m ³ Dust & fume, as Fe
TLV (America)	5* mg/m ³ *as respirable fraction

546-93-0 magnesium carbonate

WEL (Great Britain)	10* 4** mg/m ³ *inhalable dust **respirable dust
PEL (America)	15* 5** mg/m ³ *total dust **respirable fraction
REL (America)	10* 5** mg/m ³ *total dust **respirable fraction
TLV (America)	TLV withdrawn

· **DNELs:** Not available

· **PNECs:** Not available

· **Additional information:** The lists valid during the making were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Suitable respiratory protective device recommended.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· General Information

Form:	Powder
Colour:	Red
Odour:	Odourless

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· Change in condition	
Melting point/Melting range:	Not available
Boiling point/Boiling range:	Not available
· Flash point:	Not available
· Flammability (solid, gaseous):	Not available
· Ignition temperature:	Not available
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not available
Upper:	Not available
· Oxidizing properties	Not available
· Vapour pressure:	Not available
· Density:	Not available
· Relative density	Not available
· Vapour density	Not available
· Evaporation rate	Not available
· Solubility in / Miscibility with water:	Not available
· pH-value:	Not available
· Segregation coefficient (n-octanol/water):	Not available
· Viscosity:	
Dynamic:	Not available

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:** Strong oxidizing agents, Acids.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

1309-37-1 diiron trioxide

Oral	LD50	>5000 mg/kg (rat)
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- **Primary irritant effect:**

- **on the skin:** Irritating effect possible.
- **on the eye:** Irritating effect possible.
- **Sensitization:** Sensitization possible.

- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

- **Toxicokinetics, metabolism and distribution** Not available

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- **Acute effects (acute toxicity, irritation and corrosivity)** Not available
- **Repeated dose toxicity** Not available
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Not available

12 Ecological information

- **Information about elimination (persistence and degradability):** Not available
- **Behaviour in environmental systems:** Not available
- **Mobility and bioaccumulation potential:** Not available
- **Ecotoxicological effects:**
 - **Aquatic toxicity:** Not available
- **Additional ecological information:**
 - **General notes:**
 - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
 - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **PBT assessments** Not available

13 Disposal considerations

- **Product:**
 - **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
 - **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Danger code (Kemler):** -
- **UN-Number:** -
- **Packaging group:** -
- **Hazard label:** -
- **Description of goods:** -
- **Limited quantities (LQ)** -
- **Transport category** -
- **Tunnel restriction code** -

- **Maritime transport IMDG:**
- **IMDG Class:** -
- **UN Number:** -
- **Label** -
- **Packaging group:** -
- **EMS Number:** -
- **Marine pollutant:** No
- **Proper shipping name:** -

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **UN/ID Number:** -
- **Label** -
- **Packaging group:** -
- **Proper shipping name:** -

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15 Regulatory information

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

1309-37-1 diiron trioxide

546-93-0 magnesium carbonate

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Cancerogenity categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **IARC (International Agency for Research on Cancer)**

1309-37-1 diiron trioxide

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- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

1309-37-1 diiron trioxide

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- **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product has not been classified and marked in accordance with EU Directives / respective national laws.

- **Special labelling of certain preparations:**

Safety data sheet available for professional user on request.

- **National regulations:**

- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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16 Other information

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