

Test Report

No. SH7129625/ CHEM

Date: Nov. 5, 2007

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Client's name 客户名称
Client's address 客户地址

WENZHOU CHUANHAO STATIONERY CO., LTD
Yutian Small Area Longwen
Eco.Tech.Dev.z.wenzhou China

SGS Ref No.
Product Name 产品名称:
End Uses 最终用途
Composition/Ingredient 成份/原料

SHD2713376
black leads for mechanical pencils
mechanical pencils
Graphite (36%), vinyl chloride - vinyl acetate
copolymer (19.4%), methyl methacrylate (6.7%),
silicone oil (11%), stearyl alcohol (0.6%),
magnesium stearate (0.6%), bis(2-
ethylhexyloxycarbonbonylmethyl-
thio)dibutylstannane (0.6%), methyl isobutyl ketone
(8.3%), methyl ethyl ketone (5.6%), dibutyl phthalate
(5.6%), Paraffin oils (5.6%).

Job Receiving Date 收到日期:
Preparation Period 准备时期:

Oct.30, 2007
Oct.30- Nov.2, 2007

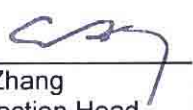
Service Requested 所需服务

Material Safety Data Sheet for the Product 化学品安全技术说明书

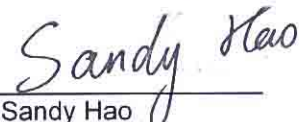
SUMMARY 摘要

The contents and format of this MSDS/SDS are in accordance with REGULATION (EC) No 1907/2006, EU Commission Directive 1999/45/EC, 67/548/EEC. 本化学品安全技术说明书的内容和格式根据欧共体 REGULATION (EC) No 1907/2006, 1999/45/EC 及 67/548/EEC 编写而成。

Signed for and on behalf of
SGS-CSTC Chemical Laboratory


Ella Zhang
Sr. Section Head

Signed for and on behalf of
SGS-CSTC Chemical Laboratory


Sandy Hao
Lab Manager

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Safety Data Sheet

Printing date 01.11.2007

Revision: 31.10.2007

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

- **Product details**
- **Trade name:** black leads for mechanical pencils
- **Registration number** Not available
- **Application of the substance / the preparation** mechanical pencils
- **Manufacturer/Supplier:**
WENZHOU CHUANHAO STATIONERY CO., LTD
Yutian Small Area Longwen Eco.Tech.Dev.z.wenzhou China
Tel: 0577-86558626
Fax: 0577-86558768
- **Further information obtainable from:** WENZHOU CHUANHAO STATIONERY CO., LTD
- **Information in case of emergency:**
xue yan, Hu
MP: 13958896723
- **Email** shilly128@sina.com
- **Reference Number:** SHD2713376; SH7129625/CHEM

2 Hazards identification

- **Hazard description:**



T Toxic

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 61 May cause harm to the unborn child.

R 36 Irritating to eyes.

R 43 May cause sensitisation by skin contact.

R 62 Possible risk of impaired fertility.

- **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:**

Mixture of substances listed below with nonhazardous additions.

For the wording of the listed risk phrases refer to section 16.

- **Dangerous components:**

CAS: 63148-62-9	silicone oil	Xi; R 36	11,0%
CAS: 108-10-1 EINECS: 203-550-1 EU Number: 606-004-00-4	4-methylpentan-2-one	Xn, Xi, F; R 11-20-36/37-66	8,3%
CAS: 80-62-6 EINECS: 201-297-1 EU Number: 607-035-00-6	methyl methacrylate	Xi, F; R 11-37/38-43	6,7%
CAS: 78-93-3 EINECS: 201-159-0 EU Number: 606-002-00-3	butanone	Xi, F; R 11-36-66-67	5,6%
CAS: 84-74-2 EINECS: 201-557-4 EU Number: 607-318-00-4	dibutyl phthalate	Repr. Cat. 2, 3; T, N; R 61-62-50	5,6%

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-EU-

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Non-dangerous component:

CAS: 7782-42-5 EINECS: 231-955-3	Graphite	36,0%
CAS: 9003-22-9	vinyl chloride - vinyl acetate copolymer	19,4%
CAS: 8012-95-1 EINECS: 232-384-2	Paraffin oils	5,6%
CAS: 112-92-5 EINECS: 204-017-6	octadecan-1-ol	0,6%
CAS: 577-04-0	magnesium stearate	0,6%
CAS: 25168-24-5 EINECS: 246-703-8	bis(2-ethylhexyloxycarbonbonylmethyl-thio)dibutylstannane	0,6%

Remark:

octadecan-1-ol (CAS No. 112-92-5)

Synonym: stearyl alcohol

4-methylpentan-2-one (CAS No. 108-10-1)

Synonym: methyl isobutyl ketone

butanone (CAS No. 78-93-3)

Synonym: methyl ethyl ketone

4 First aid measures

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

5 Fire-fighting measures

Suitable extinguishing agents:
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting: Dispose contaminated material as waste according to item 13.

7 Handling and storage

Handling:
Information for safe handling: Open and handle receptacle with care.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

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Keep respiratory protective device available.

- Storage:

- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

- Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from flammable substances.

- Further information about storage conditions: Keep container tightly sealed.

8 Exposure controls/personal protection

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

- Ingredients with limit values that require monitoring at the workplace:

7782-42-5 Graphite

PEL (USA)	15 mppcf mg/m ³
REL (USA)	2,5* mg/m ³
	*respirable dust
TLV (USA)	2 R mg/m ³
	all forms except graphite fibers

108-10-1 4-methylpentan-2-one

IOELV (EU)	Short-term value: 208 mg/m ³ , 50 ppm Long-term value: 83 mg/m ³ , 20 ppm
WEL (Great Britain)	Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm
	Sk
PEL (USA)	410 mg/m ³ , 100 ppm
REL (USA)	Short-term value: 300 mg/m ³ , 75 ppm Long-term value: 205 mg/m ³ , 50 ppm
TLV (USA)	Short-term value: 307 mg/m ³ , 75 ppm Long-term value: 205 mg/m ³ , 50 ppm
	BEI

80-62-6 methyl methacrylate

WEL (Great Britain)	Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm
PEL (USA)	410 mg/m ³ , 100 ppm
REL (USA)	410 mg/m ³ , 100 ppm
TLV (USA)	Short-term value: 410 mg/m ³ , 100 ppm Long-term value: 205 mg/m ³ , 50 ppm
	SEN

78-93-3 butanone

IOELV (EU)	Short-term value: 900 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm
WEL (Great Britain)	Short-term value: 899 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm
	Sk
PEL (USA)	590 mg/m ³ , 200 ppm
REL (USA)	Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm
TLV (USA)	Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm
	BEI

84-74-2 dibutyl phthalate

WEL (Great Britain)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³
PEL (USA)	5 mg/m ³
REL (USA)	5 mg/m ³
TLV (USA)	5 mg/m ³

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- **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:**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing
 - Wash hands before breaks and at the end of work.
 - Store protective clothing separately.
 - Avoid contact with the eyes.
 - Avoid contact with the eyes and skin.
- **Respiratory protection:**
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

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:	Solid
Colour:	Black
Odour:	Odourless

- **Change in condition**

Melting point/Melting range:	Not available
Boiling point/Boiling range:	Not available

· Flash point:	Not available
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· Flammability (solid, gaseous):	Not available
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· Ignition temperature:	Not available
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· Self-igniting:	Product is not selfigniting.
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· Danger of explosion:	Product does not present an explosion hazard.
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· Explosion limits:	
Lower:	Not available
Upper:	Not available
· Oxidizing properties	Not available
· Vapour pressure:	Not available
· Density:	1,909 g/cm ³
· Relative density	Not available
· Vapour density	Not available
· Evaporation rate	Not available
· Solubility in / Miscibility with water:	Insoluble.
· pH-value:	5,5
· 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.
- **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:**

84-74-2 dibutyl phthalate

Oral	LD50	8000 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)

80-62-6 methyl methacrylate

Oral	LD50	7872 mg/kg (rat)
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112-92-5 octadecan-1-ol

Oral	LD50	20000 mg/kg (rat)
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108-10-1 4-methylpentan-2-one

Oral	LD50	2080 mg/kg (rat)
Dermal	LD50	16000 mg/kg (rab)
Inhalative	LC50/4 h	8,3-16,6 mg/l (rat)

78-93-3 butanone

Oral	LD50	3300 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Irritating effect possible
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

- **Toxicokinetics, metabolism and distribution** Not available
- **Acute effects (acute toxicity, irritation and corrosivity)** Not available
- **Repeated dose toxicity** Not available

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CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Not available

12 Ecological information

- Information about elimination (persistence and degradability): Not available
- Behaviour in environmental systems:
- Mobility and bioaccumulation potential: Not available
- Ecotoxical effects:
- Aquatic toxicity: Not available
- General notes:
- Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- PBT assessments Not available

13 Disposal considerations

- Product:
- Recommendation
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- 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: -
- 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: Yes
- Proper shipping name: -

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

15 Regulatory information

- Sara
- Section 355(extremely hazardous substances):
- None of the ingredients is listed.

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Section 313(Specific toxic chemical listings):

108-10-1	4-methylpentan-2-one
80-62-6	methyl methacrylate
78-93-3	butanone
84-74-2	dibutyl phthalate

TSCA(Toxic Substances Control Act):

7782-42-5	Graphite
108-10-1	4-methylpentan-2-one
80-62-6	methyl methacrylate
78-93-3	butanone
84-74-2	dibutyl phthalate
8012-95-1	Paraffin oils
112-92-5	octadecan-1-ol
25168-24-5	bis(2-ethylhexyloxycarbonbonylmethyl-thio)dibutylstannane

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

84-74-2	dibutyl phthalate
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Chemicals known to cause reproductive toxicity for males:

84-74-2	dibutyl phthalate
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Chemicals known to cause developmental toxicity:

84-74-2	dibutyl phthalate
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Cancerogenity categories

EPA(Environmental Protection Agency)

80-62-6	methyl methacrylate	E;NL
78-93-3	butanone	D
84-74-2	dibutyl phthalate	D

IARC(International Agency for Research on Cancer)

9003-22-9	vinyl chloride - vinyl acetate copolymer	3
80-62-6	methyl methacrylate	3

NTP(National Toxicology Program)

None of the ingredients is listed.

TLV(Threshold Limit Value established by ACGIH)

80-62-6	methyl methacrylate	A4
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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:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

T Toxic

Risk phrases:

- 61 May cause harm to the unborn child.
- 36 Irritating to eyes.
- 43 May cause sensitisation by skin contact.
- 62 Possible risk of impaired fertility.

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Safety phrases:

- 53 Avoid exposure - obtain special instructions before use.
- 1/2 Keep locked up and out of the reach of children.
- 24/25 Avoid contact with skin and eyes.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 37 Wear suitable gloves.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16 Other information

Relevant R-phrases

- 11 Highly flammable.
- 20 Harmful by inhalation.
- 36 Irritating to eyes.
- 36/37 Irritating to eyes and respiratory system.
- 37/38 Irritating to respiratory system and skin.
- 43 May cause sensitisation by skin contact.
- 50 Very toxic to aquatic organisms.
- 61 May cause harm to the unborn child.
- 62 Possible risk of impaired fertility.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

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

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