

Material Safety Data Sheet

Printing date 11/01/2007

Reviewed on 11/01/2007

1 Identification of substance

Product details

Trade name: **black leads for mechanical pencils**

Application of the substance / the preparation **mechanical pencils**

Manufacturer/Supplier:

WENZHOU CHUANHAO STATIONERY CO., LTD.

Yutian Small Area Longwan Eco. Tech. Dev.z.wenzhou China

Tel: 0577-86558628

Fax: 0577-86558768

Information department: WENZHOU CHUANHAO STATIONERY CO., LTD.

Emergency information:

xue yan, Hu

MP: 13958896723

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Reference Number: SHD2713376; SH7129627/CHEM

2 Composition/Data on components

Chemical characterization

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

63148-62-9	silicone oil	11.0%
108-10-1	4-methylpentan-2-one	8.3%
80-62-6	methyl methacrylate	6.7%
78-93-3	butanone	5.6%
84-74-2	dibutyl phthalate	5.6%

Non dangerous components:

7782-42-5	Graphite	36.0%
9003-22-9	vinyl chloride - vinyl acetate copolymer	19.4%
8012-95-1	Paraffin oils	5.6%
112-92-5	octadecan-1-ol	0.6%
577-04-0	magnesium stearate	0.6%
25168-24-5	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

3 Hazards identification

Hazard description:



Toxic

Information pertaining to particular dangers for man and environment:

The product has to be labelled due to the calculation procedure of international guidelines.

May cause harm to the unborn child.

Irritating to eyes.

May cause sensitisation by skin contact.

(Contd. on page 2)

USA

Material Safety Data Sheet

Printing date 11/01/2007

Reviewed on 11/01/2007

Trade name: black leads for mechanical pencils

(Contd. of page 1)

Possible risk of impaired fertility.

· **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 2
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *1
Fire = 2
Reactivity = 0

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, extinguishing 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 protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

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.

(Contd. on page 3)

Material Safety Data Sheet

Printing date 11/01/2007

Reviewed on 11/01/2007

Trade name: black leads for mechanical pencils

(Contd. of page 2)

· **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls and personal protection

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

· **Components 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

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
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

80-62-6 methyl methacrylate

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
WEL (Great Britain)	Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm

78-93-3 butanone

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
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

84-74-2 dibutyl phthalate

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

· **Additional information:** The lists that were valid during the creation 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.

(Contd. on page 4)

Material Safety Data Sheet

Printing date 11/01/2007

Reviewed on 11/01/2007

Trade name: black leads for mechanical pencils

(Contd. of page 3)

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

• **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• **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
Color:	Black
Odor:	Odorless

• **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

• **Auto 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

• **Vapor pressure:** Not available

• **Density:** 1.909 g/cm³

• **Relative density** Not available

• **Vapour density** Not available

(Contd. on page 5)

Material Safety Data Sheet

Printing date 11/01/2007

Reviewed on 11/01/2007

Trade name: black leads for mechanical pencils

(Contd. of page 4)

· Evaporation rate	Not available
· Solubility in / Miscibility with Water:	Insoluble.
· pH-value:	5.5
· 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 products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are 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 internally approved calculation methods for preparations:

Irritant

12 Ecological information

- **General notes:**

Water hazard class 2 (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.

USA

(Contd. on page 6)

Material Safety Data Sheet

Printing date 11/01/2007

Reviewed on 11/01/2007

Trade name: black leads for mechanical pencils

(Contd. of page 5)

13 Disposal considerations

- **Product:**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Identification number:** -
- **Packing group:** -
- **Hazardous substance:** -
- **Poison inhalation hazard:** -
- **Proper shipping name (technical name):** -
- **Label** -
- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** -
- **Danger code (Kemler):** -
- **UN-Number:** -
- **Label:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **UN Number:** -
- **Label** -
- **Packaging group:** -
- **EMS Number:** -
- **Marine pollutant:** Yes
- **Propper shipping name:** -
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **UN/ID Number:** -
- **Label** -
- **Packaging group:** -
- **Propper shipping name:** -

15 Regulations

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· 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

(Contd. on page 7)

Material Safety Data Sheet

Printing date 11/01/2007

Reviewed on 11/01/2007

Trade name: black leads for mechanical pencils

(Contd. of page 6)

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

Chemicals known to cause reproductive toxicity for males:

84-74-2 dibutyl phthalate

Chemicals known to cause developmental toxicity:

84-74-2 dibutyl phthalate

Carcinogenicity 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.

Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

Hazard symbols:

Toxic

Risk phrases:

May cause harm to the unborn child.

Irritating to eyes.

May cause sensitisation by skin contact.

Possible risk of impaired fertility.

Safety phrases:

Avoid exposure - obtain special instructions before use.

Keep locked up and out of the reach of children.

Avoid contact with skin and eyes.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Wear suitable gloves.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

USA

(Contd. on page 8)

Material Safety Data Sheet

Printing date 11/01/2007

Reviewed on 11/01/2007

Trade name: black leads for mechanical pencils

(Contd. of page 7)

16 Other information

The contents and format of this MSDS/SDS are in accordance with 29 CFR 1910.1200(g)

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