

SAFETY DATA SHEET

(according to Regulation EC 1907/2006)

1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Trade name WHITE BOARD MARKER INK black blue red green for WBSL
Registration no. The ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH)

1.2 Relevant identified uses of substance or mixture and uses advised against

Identified uses Water-soluble stationary ink

1.3 Details of the supplier of the safety data sheet

Company Hainenko Limited
284 Chase Road, Southgate
London, N14 6HF
Telephone 0044 20 8882 8734
E-mail d.ashpole@hainenko.com
1.4 Emergency telephone number 0044 20 8882 8734 (office hours only)

2. HAZARDS IDENTIFICATION

2.1.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]
Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008 [CLP]

2.1.2. Classification according to Directive 1999/45/EC



2.2 Label elements

The product needs to be labelled in accordance with EC directives or respective national laws.
Symbol

Signal word	Danger
hazard Statement	H226 Flammable liquid and vapour H305 May be harmful if swallowed and enters airways H315 Causes skin irritation. H319 causes serious eye irritation. H335: May cause respiratory irritation H371: May cause damage to organs
Precautionary statement	Prevention P201 Obtain special instructions before use. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed P241 Use explosion-proof electrical/ventilating/light/.../equipment P270 Do not eat, drink or smoke when using this product P271 Use only outdoors or in a well ventilated area P280 Wear protective gloves/protective clothing/eye protection/ face protection. Response P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/... P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P314 Get medical advice/attention if you feel unwell. Storage P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up P410+403: Protect from sunlight. Store in a well-ventilated place P407: Maintain air gap between stacks/pallets Disposal P501 Dispose of contents/container to ...

2.3. Other hazards





Health	2
Flammability	3
Reactivity	0

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3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Mixture

Components	%	Classification
C.I.PIGMENT BLACK 7 CAS No. 1333-86-4 EINECS: 215-609-9	<5	Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008
C.I.PIGMENT BLUE 66 CAS No. 81-77-6 EINECS: 201-375-5	<5	Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008
C.I.PIGMENT GREEN 7 CAS No. 1328-53-6 EINECS:215-524-7	<5	Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008
C.I.PIGMENT RED 254 CAS No. 84632-65-5 EINECS: 401-540-3	<5	Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008
POLY VINYL BUTYRAL CAS No. 63148-65-2 EINECS: -	<15	Eye Irrit. 2, H319; 
ETHYL ALCOHOL CAS No. 64-17-5 EINECS: 200-578-6	<50	Flam. Liq. 2, H225 ; 
ISOPROPYL ALCOHOL CAS No. 67-63-0 EINECS: 200-661-7	<30	Flam. Liq. 2, H225 ;  Eye Irrit. 2, H319; 

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Supply fresh air; consult doctor in case of complaints.
Skin contact	Immediately wash with water and soap and rinse thoroughly.
Eye contact	Rinse opened eye for several minutes under running water.
Ingestion	If symptoms persist consult doctor.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

A fire extinguisher water, form, CO₂, NaHCO₃

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

Wear fully protective suit. Mouth respiratory protective device. Do not inhale explosion gases or combustion gases.

5.4 Special Information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

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

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

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

6.3 Methods and material for containment and cleaning up

No data available

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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Store in cool, dry place in tightly close receptacles.

Ensure good ventilation/exhaustion at the work place. Keep ignition sources away- Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool location. Store away from sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Occupational exposure limits

ACGIH

ETHYL ALCOHOL	TWA 1000 ppm
ISOPROPYL ALCOHOL	TWA 3.5 mg/m ³
Carbon black	TWA 200 ppm, STEL 400 ppm

8.2 Appropriate engineering controls

No data available

8.3 Personal protection equipment

General protective and wash hands before breaks and at the end of work.

hygienic measures

Eye and face protection

Tightly sealed goggles.

Respiratory protection

Use suitable respiratory protective device in case of insufficient ventilation.

Hand protection

The gloves 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.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Properties	Product WHITE BOARD MARKER INK black, blue, red green	Properties	Product WHITE BOARD MARKER INK black, blue, red green
Appearance	Liquid	Vapor pressure	No data available
Odor	minor solvent odor	Vapor destiny	No data available
Odor threshold	No data available	Relative desiny	0.8 ± 0.1 g/cm ³
PH	-	Solubility	Insoluble
Melting point/ Freezing point	No data available	Partition coefficient: n-octanol/ water	No data available
Boiling point and range	No data available	Decomposition temperature	No data available
Flash point	13 °C	Viscosity	6.0 ± 1.5 cps
Evaporation rat	No data available	Explosive properties	No data available
Flammability (solid, gas)	No data available		
Upper/lower flammability or explosive limits	No data available		

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10. STABILITY AND REACTIVITY

10.1 Reactivity	No data available
10.2 Chemical stability	Stable
10.3 Possibility of hazardous reactions	No dangerous reactions known.
10.4 Conditions to avoid	No decomposition if used according to specifications.
10.5 Incompatible materials	No data available
10.6 Hazardous decomposition products	No dangerous decomposition product known.

11. TOXICOLOGICAL INFORMATION

11.2 Information on toxicological effects

ACUTE EFFECTS

SWALLOWED:

Not applicable

EYE:

A moderate eye irritant
May cause watering of eyes
High concentrations of vapors will cause irritation

SKIN:

Contact with skin may result in irritation
Repeated or prolonged skin contact may lead to dermatitic effects
Will have a defreasing action on the skin

INHALED:

Toxic by inhalation.
The vapor is an irritant to the mucous membranes and respiratory tract.
Inhalation of vapor can result in headaches, dizziness and possible nausea.
Possible CNS effects.

CHRONIC EFFECTS:

Possible liver and kidney disorders.
Repeated or prolonged skin contact can cause chronic dermatitis.

Acute toxicity

ETHYL ALCOHOL

Oral	LD50 6200 mg/kg (Rat)
Inhance	LC50 20000 ppm/10hr (Rat)

ISOPROPYL ALCOHOL

Oral	LD50 4710~5840 mg/kg (Rat)
Inhance	LC50 72600 mg/L 4hr (Rat)
Skin	LD50 12870 mg/kg (Rabbit)

Carbon black

Oral	LD50 15400 mg/kg (Rat)
Skin	LD50 3000 mg/kg (Rabbit)

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity	No data available
12.2 Persistence and degradability	Heavily removable from water.
12.3 Bioaccumulative potencial	No data available
12.4 Mobility in soil	May be accumulated in organism
12.5 Other adverse effects	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal instructions	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
13.2 Waste from residues / unused products	No data available
13.3 Contaminated packaging	No data available

14. TRANSPORT INFORMATION

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14.1 UN CLASS	3
14.2 UN Packing Group (PG)	II
14.3 UN NUMBER	1210
14.4 Proper Shipping Name	Printing ink, flammable
14.5 Environmental hazards	No
14.6 Special precautions for user	Not regulated

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15. REGULATORY INFORMATION

15.1 Regulatory information

This is safety datasheet complies with the requirements of Regulation (EC) No 1272/2008 [CLP]

15.2 Chemical Safety Assessment:

No data available

15.3 Inventory status

SARA

- Section 335 (extremely hazardous substance): Non of the ingredients is listed.
- Section 313 (Specific toxic chemical listings): Non of the ingredients is listed.
- TSCA (Toxic Substance Control Act): Non of the ingredients is listed.

Proposition 65

- known to cause cancer Non of the ingredients is listed.

- known to cause reproductive toxicity for meals Non of the ingredients is listed.

- known to cause developmental toxicity Non of the ingredients is listed.

Carcinogenicity categories

- EPA Non of the ingredients is listed.

- IARC Non of the ingredients is listed.

- NTP Non of the ingredients is listed.

- TLV Non of the ingredients is listed.

- NIOSH-Ca Non of the ingredients is listed.

- OSHA-Ca Non of the ingredients is listed.

16. OTHER INFORMATION

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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.

· Reference

- KOSHA - Chemical information database system
- Other MSDS (YOU&I Corporation, Sigma-aldrich, Science lab, Guidechem)
- International uniform Chemical Safety Cards (ICSC).
- Hazardous Substances Data Bank (HSDB) (<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>)
- Corporate Solution From ThomsonMicromedex(<http://csi.micromedex.com>)
- ECB-ESIS(European chemical Substances Information System)(<http://ecb.jrc.it/esis>)
- ECOTOX Database, EPA(<http://cfpub.epa.gov/ecotox>)
- IUCLID Chemical Data Sheet, EC-ECB
- International Chemical Safety Cards(ICSC)(<http://www.nihs.go.jp/ICSC>)
- TOXNET, U.S. National Library of Medicine(<http://toxnet.nlm.nih.gov>)

· Abbreviation and acronyms

- ACGIH - American Conference of Industrial Hygienists
- CAS - Chemical Abstracts Service
- EC - European Community
- EEC - The European Economic Community
- EPA - Environmental Protection Agency
- GHS- Global Harmonized System
- IARC - International Agency for Research on Cancer
- NIOSH - National Institute for Occupational Safety and Health
- NTP - The National Toxicology Program
- OSHA - Occupational Safety and Health Administration
- TLV - Threshold Limit Value established by ACGIH
- TWA - 8-hour Time Weighted Averages
- STOT - Specific Target Organ Toxicity

· Disclaimer of Liability

This information is based on our present state of knowledge.
It should not therefore be construed as guaranteeing specific properties of the products
Described or their suitability for a particular application. Hainenko Limited assumes
no responsibility for personal injury or property damage caused by the material.
Users assume all risks associated with the use of the material.

***** End of Documents