

SAFETY DATA SHEET

According to GHS, to Reg. 1272/2008/EC and to Reg. 453/2010/EC

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION		
1.1	Product name	BLUE
1.2	Description and use of the product	INK FOR WRITING ARTICLES Do not use for other purposes
1.3	Company name	Hainenko Limited
1.4	Address	284 Chase Road, Southgate, N14 6HF
1.5	Telephone number	020 8882 8734
1.6	Fax number	020 8882 7749
1.7	E-mail address of the competent person responsible for Safety Data Sheet	d.ashpole@hainenko.com
1.8	Emergency phone number	020 8882 8734

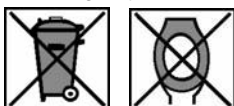
2 HAZARDS IDENTIFICATION		
2.1 GHS Labelling, Reg. 1272/2008/EC		
GHS signal word and label pictograms	No GHS symbol	
	Safety Data Sheet available on request for professional users	
GHS hazard classification	Not hazardous	
2.2 Hazards, Reg. 1272/2008/EC		
Hazards to Human	No relevant hazards to the human Any adverse health effects and consequent safety measures should be evaluated according to the material subject to the abrasion process	
Hazards for the environment	No relevant hazards to environment	
Physical or chemical hazards	No relevant physical or chemical hazards	
2.3 Hazard statements, Reg. 1272/2008/EC		
No applicable UE Regulation Hazard statements		
2.4 Precautionary statements, Reg. 1272/2008/EC		
P501	Dispose of contents/container according to local regulation	

3 COMPOSITION / INFORMATION ON INGREDIENTS					
Chemical characterization: water based ink with soluble dyes and process chemicals					
Substance name/description	CAS N.	EC N.	GHS Pictograms	Hazard classification and H statements	Conc. [%]
			Reg. 1272/2008/EC	Reg. 1272/2008/EC	
Propylene glycol	57-55-6	200-338-0	None	Not hazardous	10 ± 2
Sodium acetate	6131-90-4	204-823-8	none	Not hazardous	≤ 0,5
Ethoxylated synthetic fatty alcohol	69011-36-5	N.A.	GHS05 GHS07	Oral Acute Tox. 4 - H302 Eye Dam. 1 - H318	0,9 ± 0,1

Water-soluble dyes and other process chemicals, non-hazardous or placed an extent significant for hazard classification according to Reg. 1272/2008/EC




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4 FIRST AID MEASURES		
4.1	Eye contact	Rinse opened eye for several minutes under running water and seek immediate medical advice, showing this MSDS
4.2	Skin contact	Remove contaminated clothes. Immediately wash with water and soap and rinse thoroughly.
4.3	Swallowing	Drink water and seek immediate medical advice, showing this MSDS
4.4	Inhalation	Avoid inhalation of vapours and mist. In case, supply fresh air; consult doctor in case of complaints
4.5	Other informations	Immediately remove contaminated clothing
5 FIRE FIGHTING MEASURES		
5.1	Suitable extinguishing agents	Product is not flammable. In case of fire, use: CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam
5.2	Unsuitable extinguishing agents for safety reasons	Do not use water jet. The water is not effective to extinguish the fire, but can be used to cool containers exposed to flames to prevent fires and explosions
5.3	Special hazards caused by the substance and its combustion products or resulting gases	Avoid breathing fumes
5.4	Protective equipment	Use protection for the respiratory tract. Cool fire exposed containers with water
5.5	Other informations	Cool endangered containers with water spray. Do not allow contaminated water used to extinguish entering into soil, ground water and surface water
6 ACCIDENTAL RELEASE MEASURES		
6.1	Person-related safety precautions	Ensure adequate ventilation, avoid contact with aerosols, liquids and breathing fumes. Use safety gloves and clothes.
6.2	Measures for environmental protection	Do not allow product to reach sewage system or any water course 
6.3	Measures for cleaning/collecting	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Treat washing waste water according to local environmental regulation.
6.4	Additional informations	Collect residues in a container identified, refer to Section 13 for disposal
7 HANDLING AND STORAGE		
7.1	Handling	Ensure adequate ventilation or air extraction. Avoid breathing dusts, during use as abrasive. Wear a mask/respirator if necessary. Do not smoke, drink or eat during use. Provide points of water nearby. Keep out of reach of children
7.2	Storage	Store the original containers, tightly closed in a dry place and away from heat sources. Keep container closed before and after use. Use storage areas with impermeable floor creating drip pans

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8 EXPOSURE CONTROLS / PERSONAL PROTECTION		
8.1	Information about design of technical facilities	<p>No information Toxicological experimental product as such.</p> <p>In the context of its use in articles such as ink for writing and according to the type of process and industrial processing (storage, loading cartridges and packaging of markers and pens), provide for a replacement of air and / or exhaust sufficient in work environment and deposit, in order to maintain the environmental concentrations below the applicable exposure limits.</p> <p>Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product</p>
8.2	Exposure limit values	No available data for any component of the ink
8.3	Respiratory protection	According to the industrial production process of writing articles, in case of aerosol formation, protect the airway by means of collective intake or individual devices (mask with filter FP2)
8.4	Eyes protection	<p>Not necessary in normal use. During the industrial production process of writing articles, in case of significant risk of splashing and exposure, use devices for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)</p> 
8.5	Hands protection	<p>Not necessary in normal use.</p> <p>During the industrial production process of writing articles, in case of significant risk of splashing and exposure, use chemical resistant gloves (EN374); materials suitable for direct and prolonged contact - recommendation: protection factor 6, corresponding to a residence time > 480 min (EN374). Eg PVC - 0.7 mm in thickness due to the wide variety of types. It is advisable to follow the instructions of use of the manufacturers</p> 
8.7	Skin protection	<p>Not necessary in normal use.</p> <p>In the context of the industrial process of production of articles for writing Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of product handled</p> 
8.8	Other informations	<p>Keep away from foodstuffs. Wash hands thoroughly after handling the product. Keep working clothes separately. Immediately remove contaminated clothing.</p> <p>Follow the local Safety Management standards and instructions.</p>

9 PHYSICAL AND CHEMICAL PROPERTIES		
9.1	Appearance	Blue liquid
9.2	PH	6,5 ± 1
9.3	Odour	Odourless
9.4	Odour threshold	No available data
9.5	Density at 20°C	1,040 ± 0,01 g/cm ³
9.8	Flash point	Not applicable
9.9	Melting temperature	≥ 110 °C
9.10	Boiling temperature	- 10 °C ± 5
9.11	Ignition temperature	Not applicable
9.12	Explosive range	No available data
9.13	Oxidising properties	Not applicable

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9.14	Vapour pressure	No available data
9.15	Water solubility	Soluble
9.16	Partition coefficient n-octanol/water (log Pow)	No available data

10 STABILITY AND REACTIVITY

10.1	Stability	In case of fire and of strong overheating, the evaporation of the volatile fraction can develop carbon dioxide, carbon monoxide, and can also release dangerous products arising from thermal oxidation
10.2	Reactivity and possible hazardous reactions	Avoid contact with strong acids, strong alkali, oxidizers
10.5	Further informations	Avoid overheating

11 TOXICOLOGICAL INFORMATIONS

11.1	Acute toxicity	This ink is not particularly toxic characteristics; depending on the characteristics and concentrations of the components can take a value indicative of toxicity LD50 (oral-rat) greater than 5000 mg / kg Propylene glycol: LD50 = 20 g / kg (oral rat); 20.8 g / kg (skin rabbit)
11.2	Local effects	Skin: not known to irritate Eyes: not known to irritate Sensitization: not known effects Ingestion: not known relevant effects Inhalation: not known relevant effects
11.3	CMR properties	Carcinogenicity, mutagenicity and toxicity for reproduction: substances present in the product are not classified CMR. There is no further data
11.4	Further informations	Chronic effects: no data available

12 ECOLOGICAL INFORMATIONS

12.1	Elimination information (persistence and degradability)	No available data
12.2	Ecological toxicity	No relevant environmental effects
12.3	Potential of bioaccumulation	No available data
12.4	Mobility in soil	No available data
12.5	Further informations	Avoid product entering watercourses, waste water or soil. Hazardous to water. Do not enter ground water, water course or sewage system

13 DISPOSAL CONSIDERATIONS

13.1	Disposal recommendation	Dispose of in compliance with all applicable international, national and local. Do not dispose with household refuse. Dispose of as industrial waste
13.2	European waste catalogue (EWC)	For disposal within the EU is roughly from the code used by the sudden refusal to register the European Waste Catalogue (EWC)

14 TRANSPORT INFORMATION

14.1	Land transport ADR – RID (road and rail)	Not regulated
14.2	Transport by sea IMDG	Not regulated
14.3	Air transport IATA	Not regulated

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15 REGULATORY INFORMATION

Reporting of this section is based on ingredients discussed in section 3	
Hazardous substances	None
Classification, packaging and labelling according to Regulation 1272/2008/EC	NOT HAZARDOUS
Signal word	None
Hazard pictogram	None
Hazard statements	None
REACH Regulation Substances Very High Concern	This product does not contain SVHC's in concentrations above 0.1% weight/weight labeling to UE Reach regulation (june 2015 updated)
Other regulation references	Reg 1272/2008/EC (classification, labeling and packaging of substances and mixtures, and amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) 1907/2006/CE. This product does not contain substances classified as carcinogenic cat. 1 or 2 according to Reg 1272/2008/EC and following amendments

16 OTHER INFORMATIONS

16.1	Full text of H statements, sections 2 and 3	H302 - Harmful if swallowed H318 - Causes serious eye damage
16.2	Revision comments and references	Informations are updated and according to: Reg. 1272/2008/EC (classification, labeling and packaging of substances and preparations) modifying directives 67/548/EC, 1999/45/EC and Reg. 1907/2006/EC European Chemical Bureau – Lucid data sheet 2014 GHS "Globally Harmonized System of Classification and Labelling of Chemicals, United Nations, 1 st Revised Edition 2005" Occupational Safety and Health Administration "MSDS Requirements 49CFR" NIOSH: Registry of toxic effects of chemical substances ACGIH: American Conference of Governmental Industrial Hygienists – 2014 Transport regulations ADR (2014); IMDG-Code (33. Amdt.); IATA-DGR Reg. 1907/2006/EC "UE – REACH Regulation"
16.3	Disclaimer	This MSDS complies with the requirements of GHS and Reg 453/2010/EC. It does not excuse in any way the user from knowing and applying all texts governing his activity. The user will take under its responsibility the precautions related to the use of the product. The set of regulations mentioned is intended simply to help the recipient to fulfill her obligations. This list should not be considered as a technical note complete details use but not replace it. The information is based on our knowledge of the product, the date indicated. They are given in good faith. The attention of the user is directed to possible risks incurred when a product is used for other purposes than for which it was conceived. The recipient must ensure that no other obligations to compete on the basis of texts in addition to those mentioned

ABBREVIATIONS AND ACRONYMS

ACGIH	American Conference of Governmental Industrial Hygienists
ANSI	American National Standard for Hazardous Workplace Chemicals
CCOHS	Canadian Centre for Occupational Health and Safety
FHSA	Federal Hazardous Substances Act
HMIS	Hazardous Material Information System (U.S.A.)
IARC	International Agency for Research in Cancer
LD50	Average letal dose
REACH	Registration, Evaluation, Authorisation of Chemicals
n.a.	Not Applicable/Not available