

# SAFETY DATA SHEET

According to GHS, to Reg. 1272/2008/EC and to Reg. 830/2015/EU

<b>1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION</b>		
1.1	Product name	<b>INKS – WASHABLE GROUP</b> Colour and codes details are indicated in section n. 16
1.2	Description and use of the product	<b>INK FOR WRITING ARTICLES</b> 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
<b>2 HAZARDS IDENTIFICATION</b>		
<b>2.1 GHS Labelling, Reg. 1272/2008/EC</b>		
GHS signal word and label pictograms		<b>No GHS symbol</b>
		Safety Data Sheet available on request for professional users
GHS hazard classification		Not hazardous
<b>2.2 Hazards, Reg. 1272/2008/EC</b>		
Hazards to Human		No relevant hazards to the human
Hazards for the environment		No relevant hazards to environment
Physical or chemical hazards		No relevant physical or chemical hazards
<b>2.3 Hazard statements, Reg. 1272/2008/EC</b>		
		Not applicable UE Regulation Hazard statements
<b>2.4 Precautionary statements, Reg. 1272/2008/EC</b>		
P501		Dispose of contents/container according to local regulation
<b>2.5 Other hazards</b>		
		No

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## 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: water based ink with soluble dyestuffs 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

Water-soluble dyes, preservatives and other process chemicals, non-hazardous or placed an extent no significant for hazard classification according to Reg. 1272/2008/EC

## 4 FIRST AID MEASURES

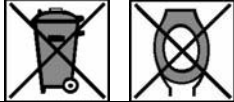


4.1	Eye contact	Rinse opened eye for several minutes under running water and seek immediate medical advice, showing this MSDS
4.2	Skin contact	Remove contaminated clothes. Immediately wash with water and soap and rinse thoroughly.
4.3	Swallowing	Drink water and seek immediate medical advice, showing this MSDS
4.4	Inhalation	Avoid inhalation of vapours and mist. In case, supply fresh air; consult doctor in case of complaints
4.5	Most important symptoms and effects, acute and delayed	No specific informations are available
4.6	Other informations	Immediately remove contaminated clothing

## 5 FIRE FIGHTING MEASURES

5.1	Suitable extinguishing agents	Product is water based and is not flammable. In case of fire, use: CO <sub>2</sub> , 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	Advice for firefighters	Use protection for the respiratory tract Cool endangered containers with water spray. Do not allow contaminated water used to extinguish entering into soil, ground water and surface water



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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. See also Section 8
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 mists if overheated. Do not smoke, drink or eat during use. 
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. Product is stable two years
7.3	Specific end use	Water based Ink for writing articles. Do not use for other purposes
8 EXPOSURE CONTROLS / PERSONAL PROTECTION		
8.1	Information about design of technical facilities	No information Toxicological experimental product as such. 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. Avoid direct contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product
8.2	Exposure limit values	No available data for any component of the ink
8.3	Respiratory protection	Not necessary in normal use According to the industrial production process of writing articles, in case of overheating and aerosol, protect the airway by means of collective intake or individual devices (mask with filter FP2)
8.4	Eyes protection	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) 

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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 &gt; 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>	
8.6	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>	
8.7	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	Liquid Colour is different according to the specific article code
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 <sup>3</sup>
9.8	Flash point	Not applicable, water based mixture
9.9	Melting temperature	< 0°C
9.10	Boiling temperature	> 100°C
9.11	Ignition temperature	Not applicable, water based mixture
9.12	Explosive range	No available data
9.13	Oxidising properties	Not applicable, no oxidizing substances are available
9.14	Vapour pressure	23,4 HPa at 20°C (water vapour pressure)
9.15	Water solubility	Soluble
9.16	Partition coefficient n-octanol/water (log Kow)	Propylene glycol: -0,92
9.17	V.O.C.	No volatile organic carbon is available

## 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
10.3	Further informations	Avoid overheating

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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. Non sensitizing substances are available in this mixture 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	Chronic effects	No available data, not known effects
12 ECOLOGICAL INFORMATIONS		
12.1	Elimination information (persistence and degradability)	Biodegradation of this mixture is high, according to its chemical composition
12.2	Ecological toxicity	No relevant environmental effects (acute or long term toxicity)
12.3	Potential of bioaccumulation	No bioaccumulation effects of substances is possible
12.4	Mobility in soil	Water bases inks can notice mobility in soils
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 applicable, not regulated
14.2	Transport by sea IMDG	Not applicable, not regulated
14.3	Air transport IATA	Not applicable, not regulated
14.4	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable, not regulated

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15 REGULATORY INFORMATION		
<b>Reporting of this section is based on ingredients discussed in section 3</b>		
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 (January 2017 updated) Reach Autorisation: not applicable Reach Restrictions (Annex 17 and following amendments): not applicable	
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. The ink is according to EN 71-9 and to Dir. 2009/48/EC requirements (safety of toys)	
Chemical Safety assessment	No chemical safety assessment was not done, according to its chemical composition	
16 OTHER INFORMATIONS		
16.1	Full text of H statements, sections 2 and 3	---
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 ECHA C&L inventory GHS "Globally Harmonized System of Classification and Labelling of Chemicals, United Nations, 1 <sup>st</sup> Revised Edition 2005" Occupational Safety and Health Administration "MSDS Requirements 49 CFR" NIOSH: Registry of toxic effects of chemical substances IFA-GESTIS DATABASE 2017_ <a href="http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp">http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp</a> Transport regulations ADR (2015); IMDG-Code (33. Amdt.); IATA-DGR Reg. 1907/2006/EC "UE – REACH Regulation"
16.3	Reviewed section	The following sections were reviewed: 1, 4, 5, 9, 11, 12, 15, 16
16.4	Disclaimer	This MSDS complies with the requirements of GHS and Reg 830/2015/EU. 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

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16.5	Colours and article codes details	BLACK	01	VIOLET	43
		BLUE	02	PINK	44
		RED	03	PINK	45
		GREEN	04	PINK	46
		YELLOW	05	PINK	47
		DEEP BROWN	06	GREY	48
		ORANGE	07	GREY	49
		ANTIQUÉ PINK	08	SILVER	50
		TOBACCO	09	GREY	51
		VIOLET	10	BLUE	52
		LIGHT GREEN	11	BLUE	53
		PINK FLESH	12	BLUE	54
		LIGHT GREY	13	VIOLET	55
		SIENNA	14	BLUE	56
		YELLOW OCHER	15	BLUE	57
		PRUSSIAN BLUE	16	BLUE	58
		VERMILION	17	LIGHT BLUE	59
		DEEP GREY	18	HEAVENLY	60
		INDIGO	19	LIGHT BLUE	61
		GREEN OIL	20	HEAVENLY	62
		AMARANTH	21	GREEN	63
		LIGHT BROWN	22	GREEN	64
		LIGHT YELLOW	23	GREEN	65
		DEEP YELLOW	24	GREEN	66
		BRILLIANT PINK	25	GREEN	67
		ENGLISH RED	26	GREEN	68
		TURQUOISE	27	GREEN	69
		HEAVENLY	28#	GREEN	70
		VERONESE GREEN	29	GREEN	71
		YELLOWISH GREEN	30	GREEN	72
		LIGHT BLUE	31	GREEN	73
		LILAC	32	ORANGE	74
		OLIVE GREEN	33	ORANGE	75
		GREEN LEAF	34	PINK	76
		MAGENTA	35	ORANGE	77
		POWDER	36	ORANGE	78
		PINK	37	RED	79
		PINK	38	RED	80
		VIOLET	39	RED/PINK	81
		VIOLET	40	PINK	82
		VIOLET	41	ORANGE	83
		VIOLET	42	ORANGE	84

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Colours and article codes details	YELLOW	85
	PINK	86
	BROWN	87
	BROWN	88
	BROWN	89
	BROWN	90
	VIOLET	91
	VIOLET	92
	VIOLET	93
	BRONZE	94
	PINK	95
	RED/PINK	96

## ABBREVIATIONS AND ACRONYMS

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