

SAFETY INFORMATION SHEET

According to Reg. 1272/2008/EC and Reg. 878/2020/EU

1	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
1.1	Product name	INKS – SUPER-WASHABLE GROUP Colour and codes details are indicated in section n. 16.6
1.2	Relevant identified uses of the substance or mixture and uses advised against	INKS FOR WRITING MARKERS
		USES ADVISED AGAINST: the product is not intended for use in the food industry and for cosmetic use (humans or animals). Do not use for other purposes
1.3	Company name	Hainenko Limited.
	Address	284 Chase Road, Southgate, London, N14 6HF
	Telephone number	0044 20 8882 8734
	Fax number	0044 20 8882 7749
	E-mail address of the competent person responsible for Safety Data Sheet	d.ashpole@hainenko.com
1.4	Emergency telephone number	LIST OF POISON CONTROL CENTERS IN ITALY ROMA CAVp "Osp. Pediatrico Bambino Gesù". Tel: 06 68593726 FOGGIA Az. Osp. Univ. Foggia. Tel: 0881 732326 MILANO Ospedale Niguarda Ca' Granda. Tel : 02 66101029 NAPOLI Ospedale Riuniti Cardarelli. Tel : 081 7472870 ROMA Policlinico Agostino Gemelli. Tel : 06 3054343 ROMA Policlinico Umberto I. Tel : 06 490663 PAVIA CAV Centro Nazionale di Informazione Tossicologica. Tel: 0382 24444 BERGAMO Azienda Ospedaliera Papa Giovanni XXII. Tel.: 800 883300 FIRENZE Az. Osp. "Careggi" U.O. Tossicologia Medica. Tel.: 055 7947819 VERONA Azienda Ospedaliera Integrata. Tel: 800011858

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According to Reg. 1272/2008/EC and Reg. 878/2020/EU

2	HAZARDS IDENTIFICATION	
2.1	GHS Symbols and hazard labelling according to Reg. 1272/2008/EC	
	DEFINITION	MIXTURE
	HAZARD CLASSIFICATION	NOT HAZARDOUS
	GHS PICTOGRAMS	No SIGNAL WORD
		No GHS PICTOGRAMS
	HAZARDS TO HUMAN	CLASSIFICATION CRITERIA ARE NOT MET
	CHEMICAL AND PHYSICALS HAZARDS	CLASSIFICATION CRITERIA ARE NOT MET
	HAZARDS TO ENVIRONMENT	CLASSIFICATION CRITERIA ARE NOT MET
2.2	Label elements	
	No SIGNAL WORD	
	No GHS PICTOGRAM	
	Hazard statements	
	None	
	Precautionary statements	
	None	
	Substances on label	---
	Special Provisions	None
	Special provisions according to Annex XVII of REACH and subsequent amendments	None
	Other hazards	
2.3	The mixture meets criteria for PBT according to Reg. (EC) 1907/2006, all. XIII	Not applicable
	The mixture meets the criteria for vPvB according to Reg.(EC) 1907/2006, all. XIII	Not applicable
	Acute and chronic effects on organs and systems: clinical symptoms on target organs and the endocrine system	Based on available data, the classification criteria are not met. For the exact identification of the organs subject to the action of the substances/mixtures that make up the product, the identification of the symptoms, and the correct knowledge of the severity of damage to health or the environment, it is necessary to refer to the information of each component. The information relating to the exact identification of the action of the components of the mixture is either not available or is not significantly relevant in relation to the hazard of the product
	Other hazards not mentioned in the classification	None

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3	COMPOSIZIONE/INFORMAZIONE SUGLI INGREDIENTI					
3.1	Substances: not applicable					
3.2	Mixtures: WATER BASED INK. NOT HAZARDOUS BLEND OF DYESTUFFS AND PROCESS CHEMICALS					
Chemical name of hazardous substances		CAS N.	EC N.	GHS Pictograms	Classification, Hazard statements H The full text of the Hazard statements is in section 16	Conc. [%]
None		---	---	---	---	---
There are no additional ingredients to a significant extent with respect to the significance thresholds established by Reg. 1272/2008/EC or which, in the current knowledge of the supplier and in the applicable concentrations, are classified as dangerous for health or for the environment, meet the PBT or vPvB criteria or are considered as substances with an equivalent degree of concern or substances to which an occupational exposure limit has been assigned and which must therefore be reported in this section						
No nanomaterials are used						
The upper limits of the ranges of concentration are excluded						
Occupational exposure limits, if available, are listed in Section 8						
4	FIRST AID MEASURES					
4.1	Description of first aid measures					
	Eye contact		Irrigate with a suitable eye solution or water for ten minutes –obtain medical attention.			
	Skin contact		Remove any contaminated clothing. Wash with soap & flowing water.			
	Swallowing		Give plenty to drink if ingestion is suspected. DO NOT induce vomiting and consult a physician.			
	Inhalation		Not applicable			
	Protection of rescuers		No action shall be got involving any personal risk or without proper training			
	Other informations		None			
4.2	Most important symptoms and effects, acute and delayed					
	Inhalation		Symptoms: --- Effects: ---			
	Skin contact		Symptoms: --- Effects: ---			
	Eye contact		Symptoms: --- Effects: ---			
	Ingestion		Symptoms: nausea, abdominal pain, haemorrhagic vomiting, diarrhea, choking, coughing, severe respiratory failure Effects: If ingested, it causes irritation to the mouth, throat, esophagus and stomach			
4.3	Medical attention and special treatment					
	Treat symptomatically. If ingested or inhaled (large amounts), immediately contact a poison control center. No specific treatment is not known					

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According to Reg. 1272/2008/EC and Reg. 878/2020/EU

5	FIRE FIGHTING MEASURES	
5.1	Suitable extinguishing agents	This product is water based and is not flammable. In the event of a fire the following extinguishing means can be used: carbon dioxide (CO ₂), foam, chemical powders, in the case of fires of considerable size, also sprayed water jet
5.2	Unsuitable extinguishing agents for safety reasons	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	In case of fire, if long time exposed to high temperature, it may decompose and develop hazardous substances such as carbon oxides, heavy smokes and traces of sulfur oxides, nitrogen oxides and other decomposition substances
5.4	Protective equipment	Use protection for the respiratory tract. Cool fire exposed containers with water
5.5	Recommendations for Fire Extinguishers	Cool containers with water jets to avoid product decomposition and the development of substances potentially hazardous to health. Always wear complete fire protection equipment. Collect extinguishing water that should not be discharged into drains. Dispose of contaminated water used for fire extinguishing and residues in accordance with current regulations. Use normal fire fighting clothing such as an open-air compressor (EN 137), full flame retardant (EN469), flame retardant gloves (EN 659) and boots for firefighters (HO A29 or A30).
6	ACCIDENTAL RELEASE MEASURES	
6.1	Personal precautions, protective equipment and procedures in case of emergency	
	Person-related safety precautions	Avoid contact with eyes and ingestion
	Measures for environmental protection	Prevent contamination of soil and water. Refer to Sections 8.0 and 13.0 for additional information on Exposure and Disposal. Do not allow product to reach sewage system or any water course  
	Additional informations	Collect residues in a container identified, refer to Section 13 for disposal
6.2	Methods and materials for containment and cleaning	
	Measures for cleaning/collecting (small spill)	Collect mechanically. Treat washing waste water according to local environmental regulation
	Measures for cleaning/collecting (large spill)	Collect mechanically. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Treat washing waste water according to local environmental regulation. Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas and dispose in accordance with local regulations
6.3	Reference to other sections	
	Emergency telephone numbers	See section 1
	Protection devices individual.	See section 8
	Waste treatment	See section 13

SAFETY INFORMATION SHEET

According to Reg. 1272/2008/EC and Reg. 878/2020/EU

7 HANDLING AND STORAGE		
7.1	Handling, Directions for safe handling	Verify the integrity of the markers and their boxes and containers before handling. Handle the containers with care. Avoid contact with eyes, avoid ingestion. Do not smoke in work and storage areas.  
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. Protect the container against impacts and falls. Keep away from food, drinks and animal feed.
7.3	Specific end uses	Ink of writing markers. Those ink group is not an alimentary additive
8 EXPOSURE CONTROLS / PERSONAL PROTECTION		
8.1	Control parameters	Component substance
		Value
		No available data
8.2	Exposure control	
	Recommended monitoring procedures	Use and manage the marker ink in the proper use
	Individual protection measures	The ink is not classified hazardous. 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 contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
	Environmental protection devices	Avoid polluting water
	Respiratory protection	Not necessary in normal use
	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)
	Hands protection	Not necessary in normal use. 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
	Thermal hazards	Not applicable in relation to the intended use. Wear heat-resistant gloves in case of thermal hazards
	Skin protection	Not necessary in normal use. 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
	Other informations	Keep away from foodstuffs. Wash hands thoroughly after handling the product. Keep working clothes separately. Immediately remove contaminated clothing. Follow the local Safety Management standards and instructions

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9 PHYSICAL AND CHEMICAL PROPERTIES		
9.1	Information on basic physical and chemical properties	
	Appearance	Liquid
	Colour	Different colours and shades
	PH	6,5 ± 1
	Odour	Odourless
	Odour threshold	No available data
	Viscosity	No available data
	Density	1,04 ± 0,01 g/cm ³
	Density of vapours (air = 1)	Not applicable
	Flash point	Not applicable
	Melting temperature	≤ 0°C
	Boiling temperature	≥ 100°C
	Self-ignition temperature	Not applicable
	Explosive range	Not applicable
	Comburent properties	Not applicable
	Vapour pressure at 20°C	23,4 HPa (water)
	Water solubility	Soluble
	Partition coefficient n-octanol/water (log Pow)	Propylene glycol = -1,07
9.2	Other informations	
	VOC (Directive 2010/75/CE)	< 0,1%
10 STABILITY AND REACTIVITY		
10.1	Reactivity	Stable in normal conditions. No further relevant information available
10.2	Chemical stability	Stable under normal conditions of handling and storage
10.3	Possibility of dangerous reactions	No dangerous reactions are known
10.4	Conditions to avoid	Avoid strong overheating.
10.5	Incompatible materials	Strong acids, strong oxidisers
10.6	Hazardous decomposition products	No further relevant information available
11 TOXICOLOGICAL INFORMATIONS		
11.1	Toxicological effects	
	Acute toxicity	CALCULATED ACCORDING TO THE NOT HAZARDOUS CHEMICAL COMPOSITION
		LD50 – Ingestion > 10000 mg/kg - not classified
		LD50 – Skin contact > 10000 mg/kg - not classified
		LC50 – Inhalation > 5000 mg/m ³ (mist) - not classified
	Chronic toxicity	Classification criteria are not met
	Effect on eye	Classification criteria are not met
	Effect on skin	Classification criteria are not met
	Inhalation	Classification criteria are not met

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	Sensitisation	Classification criteria are not met
	Ingestion	Classification criteria are not met
	Toxic effect by skin contact	Classification criteria are not met
	Specific Target Organ Toxicity (STOT) — single or repeated exposure	Classification criteria are not met
	Hazards by aspiration	Classification criteria are not met.
11.2	CMR properties	
	Carcinogenicity	Classification criteria are not met
	Mutagenicity	Classification criteria are not met
	Toxicity for reproduction	Classification criteria are not met
11.3	Other information: metabolism, kinetics, mechanism of action, effects on the endocrine system for short and long term effects	
	No relevant effect are noticed. Effects on human endocrine system: none. Interactive effects: none. Possible exposition route: ingestion, inhalation of mist, skin/eye contact	

12	ECOLOGICAL INFORMATION	
12.1	Acute toxicity	The components of the product are not classified as hazardous to the environment
		Acute or long-term effects on aquatic environment: no available data
12.2	Persistence and degradability	All organic components present in the mixture are biodegradable.
12.3	Bioaccumulative potential	No bioaccumulation components are used
12.4	Mobility in soil	Because of the physical properties and chemical composition, a high soil mobility is expected
12.5	Results of PBT and vPvB assessment	For evaluations of the PBT and vPvB assessment of the substances/mixtures contained in the product, see the information on the individual components. This mixture contains no substances evaluated persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB)
12.6	Properties of interference with the endocrine system	Classification criteria are not met. No effects are known
12.7	Other adverse effects	No other informations

13	DISPOSAL CONSIDERATIONS	
The information in this section contains instructions and general notes. The list of identified uses in section 1 for specific information available		
13.1	Waste treatment methods	Product The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the law on environmental protection and waste disposal legislation and the requirements of any relevant local authorities. Dispose of surplus and non-recyclable products via a licensed waste disposal. The untreated waste should not be disposed of in the sewer system unless they are not fully compliant with the requirements of each institution and legislation. Hazardous waste: no
		Packaging The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Dispose of this material and its container must be with proper precautions. Empty containers or liners may retain some product residues. Prevent drift and runoff of spilled material and contact with soil, waterways, drains and sewers

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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	UN number	Not applicable
14.2	Proper shipping name	Land transport, road and rail (ADR/RID): not applicable Transport by sea (IMDG): not applicable Air transport (ICAO-TI / IATA-DGR): not applicable
14.3	Transport hazard classes	Land transport (ADR/RID): Not regulated Transport by sea (IMDG): Not regulated Air transport (ICAO-TI / IATA-DGR): Not regulated
14.4	Packing group	Not applicable
15.5	Environmental hazards	Land transport (ADR/RID): No Transport by sea (IMDG): No Air transport (ICAO-TI / IATA-DGR): No
14.6	Special precautions for users	Transport within the user's properties: always transport with closed containers, stored vertically and secured to the means of transport. Check the suitability of the people carrying out the transport to intervene effectively in the event of an accident and/or spill
14.7	Transport in bulk according to Annex II of MARPOL 73/8 and the IBC Code	Not applicable
15	REGULATORY INFORMATION	
15.1	Main regulatory references	Reg. 1272/2008/EC of the European Parliament and of the Council (classification, labeling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Directive 1907/2006/EC. Restrictions according to Annex 17 of Reach Reg. and subsequent amendments: restriction n. 3 is applicable due to the presence of geraniol Substances included in the candidate list (SVHC) at the date of issue of this card: none Substances subject to authorization (Annex 14 to Reg. Reach): none Germany, Administrative Regulation of Substances Hazardous to Water (VwVwS). Water hazard class: WGK 1 (low hazardous to water) Dir. Seveso III (relevant industrial risks): not applicable ROHS III Directive: not applicable Reg. 648/2004/EC concerning detergents: not applicable Reg. 590/2024/UE on substances that deplete the ozone layer: not applicable Reg. 1021/2019/UE relating to persistent organic pollutants: not applicable Reg. 1148/2019/EU relating to explosives precursors: not applicable Dir. 2009/48/EC concerning the safety of toys: applicable
15.2	Chemical safety assessment	Not applicable

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16	OTHER INFORMATIONS	
16.1	Full text of H statements, sections 2 and 3 Abbreviations and acronyms	None ACGIH: American Conference of Governmental Industrial Hygienist. ADN: European Agreement concerning the international carriage of dangerous goods by inland waterways. ADR: European Agreement concerning the international carriage of dangerous goods by road. BEI: Biological exposure limit: it indicates the relative biological agent or its metabolite established by ACGIH. EC50: Median effective concentration: the effective concentration of substance that causes in the 50% of individuals a different effect from death (immobilization, stunting etc.). LC0: The highest dose used that does not cause any death. DFG: German Commission for the study of the health hazards of chemicals in the workplace. LD50: Median dose: single dose of substance, statistically evaluated, which is expected to cause death in 50% of treated animals. PPE: Personal protective equipment IARC: International Agency for Research on Cancer. IBC: International Bulk Chemical Code: International Code for Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk. ICAO: International Civil Aviation Organisation; it refers to Annex 18 of the Convention on International Civil Aviation "Safety of air transport of dangerous goods". IMDG: Intern. Maritime Dangerous Goods code for transport of dangerous goods by sea. IMO: International Maritime Organization. Kow: Partition coefficient between n-octanol and water. It is defined as the ratio between the equilibrium concentrations of a dissolved substance in a system consisting of n-octanol and water. It is a measure of the lipophilicity of the substance. LOAEL: Lowest Observed Adverse Effect Level MAK: Maximum concentration of a chemical substance (as gas, vapor or particulate matter) in the workplace air which generally does not cause adverse effects on workers' health nor cause annoyance even when the person is repeatedly exposed during long periods (typically 8 hours per day, assuming an average of 40 hours of work per week). MARPOL: Protocol on Transport in bulk according to IMO. NOEC: No Observed Effect Concentration NOEL: No Observed Effect Level RID: European Agreement concerning the international carriage of dangerous goods by rail STEL: Threshold Limit Value - Short Term Exposure Limit: the concentration to which it is considered that workers can be exposed continuously for 15 minutes to up to 4 times per day with an interval of 60 minutes between exposures without suffering adverse effects. TLV: Threshold Limit Value established by ACGIH. TWA: Threshold Limit Value - Time-Weighted Average: the concentration for a conventional 8-hour workday and a 40-hour workweek, to which it is considered that nearly all workers may be repeatedly exposed, day after day, for a working lifetime without adverse effects. DNEL: Derived No-Effect Level PNCE: Predicted no-effect concentration
16.2	Bibliographic references	ECDIN - Environmental Chemical Data and Information Network IUCLID - International Uniform Chemical Information Data Base ECHA C&L inventory NIOSH - Registry of Toxic Effects of Chemical Substances IFA_GESTIS - http://limitvalue.ifa.dguv.de/ HSDB TOXNET - https://toxnet.nlm.nih.gov/
16.3	Changes to previous version	Formal review of all sections. No significant changes in sections compared to previous edition

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According to Reg. 1272/2008/EC and Reg. 878/2020/EU

16.4	Further informations	The information herein is correct at the Reg 1272/2008/EC and following amendments. Product conforms to the requirements provided in Title II of Regulation 1907/2006/EC (the registration of substances). None of the substances in this product is subject to authorization (annex 14) or is included in the candidate list of SVHCs under the REACH Regulation, the issuance of this sheet			
16.5	Disclaimer	This Safety Information Sheet complies with the requirements of Reg 878/2020/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 details. 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			
16.6	Colours and article codes details	BLACK	01	HEAVENLY	28
		BLUE	02	VERONESE GREEN	29
		RED	03	YELLOWISH GREEN	30
		GREEN	04	LIGHT BLUE	31
		YELLOW	05	LILAC	32
		DEEP BROWN	06	OLIVE GREEN	33
		ORANGE	07	GREEN LEAF	34
		ANTIQUE PINK	08	MAGENTA	35
		TOBACCO	09	POWDER	36
		VIOLET	10	PINK	37
		LIGHT GREEN	11	PINK	38
		PINK FLESH	12	VIOLET	39
		LIGHT GREY	13	VIOLET	40
		SIENNA	14	VIOLET	41
		YELLOW OCHER	15	VIOLET	42
		PRUSSIAN BLUE	16	VIOLET	43
		VERMILION	17	PINK	44
		DEEP GREY	18	PINK	45
		INDIGO	19	PINK	46
		GREEN OIL	20	PINK	47
		AMARANTH	21	GREY	48
		LIGHT BROWN	22	GREY	49
		LIGHT YELLOW	23	SILVER	50
		DEEP YELLOW	24	GREY	51
		BRILLIANT PINK	25	BLUE	52
		ENGLISH RED	26	BLUE	53
		TURQUOISE	27	BLUE	54

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Colours and article codes details	HEAVENLY	60		
	LIGHT BLUE	61	PINK	82
	HEAVENLY	62	ORANGE	83
	GREEN	63	ORANGE	84
	GREEN	64	YELLOW	85
	GREEN	65	PINK	86
	GREEN	66	BROWN	87
	GREEN	67	BROWN	88
	GREEN	68	BROWN	89
	GREEN	69	BROWN	90
	GREEN	70	BROWN	91
	GREEN	71	VIOLET	92
	GREEN	72	VIOLET	93
	GREEN	73	VIOLET	94
	ORANGE	74	BRONZE	95
	ORANGE	75	PINK	96
	PINK	76	RED/PINK	97
	ORANGE	77		
	ORANGE	78		
	RED	79		
	RED	80		
	RED/PINK	81		

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1	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
1.1	Product name	1000 SERIES INKS_ALL COLOURS (codes Black 1001, Blue 1002, Red 1003, Green 1004, Yellow 1005, Orange 1007, Purple 1010 and their further combinations)
1.2	Relevant identified uses of the substance or mixture and uses advised against	INKS FOR WRITING MARKERS
		USES ADVISED AGAINST: the product is not intended for use in the food industry and for cosmetic use (humans or animals). Do not use for other purposes
1.3	Company name	HAINENKO LIMITED
	Address	284 Chase Road, Southgate, London, N14 6HF
	Telephone number	0044 20 8882 8734
	Fax number	0044 20 8882 7749
	E-mail address of the competent person responsible for Safety Data Sheet	d.ashpole@hainenko.com
1.4	Emergency telephone number	LIST OF POISON CONTROL CENTERS IN ITALY ROMA CAVp "Osp. Pediatrico Bambino Gesù". Tel: 06 68593726 FOGGIA Az. Osp. Univ. Foggia. Tel: 0881 732326 MILANO Ospedale Niguarda Ca' Granda. Tel : 02 66101029 NAPOLI Ospedale Riuniti Cardarelli. Tel : 081 7472870 ROMA Policlinico Agostino Gemelli. Tel : 06 3054343 ROMA Policlinico Umberto I. Tel : 06 490663 PAVIA CAV Centro Nazionale di Informazione Tossicologica. Tel: 0382 24444 BERGAMO Azienda Ospedaliera Papa Giovanni XXII. Tel.: 800 883300 FIRENZE Az. Osp. "Careggi" U.O. Tossicologia Medica. Tel.: 055 7947819 VERONA Azienda Ospedaliera Integrata. Tel: 800011858

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2	HAZARDS IDENTIFICATION	
2.1	GHS Symbols and hazard labelling according to Reg. 1272/2008/EC	
	DEFINITION	MIXTURE
	HAZARD CLASSIFICATION	NOT HAZARDOUS
	GHS PICTOGRAMS	No SIGNAL WORD
		No GHS PICTOGRAMS
	HAZARDS TO HUMAN	CLASSIFICATION CRITERIA ARE NOT MET
	CHEMICAL AND PHYSICALS HAZARDS	CLASSIFICATION CRITERIA ARE NOT MET
	HAZARDS TO ENVIRONMENT	CLASSIFICATION CRITERIA ARE NOT MET
2.2	Label elements	
	No SIGNAL WORD	
	No GHS PICTOGRAM	
	Hazard statements	
	None	
	Precautionary statements	
	None	
	Substances on label	---
	Special Provisions	None
	Special provisions according to Annex XVII of REACH and subsequent amendments	None
	Other hazards	
2.3	The mixture meets criteria for PBT according to Reg. (EC) 1907/2006, all. XIII	Not applicable
	The mixture meets the criteria for vPvB according to Reg.(EC) 1907/2006, all. XIII	Not applicable
	Acute and chronic effects on organs and systems: clinical symptoms on target organs and the endocrine system	Based on available data, the classification criteria are not met. For the exact identification of the organs subject to the action of the substances/mixtures that make up the product, the identification of the symptoms, and the correct knowledge of the severity of damage to health or the environment, it is necessary to refer to the information of each component. The information relating to the exact identification of the action of the components of the mixture is either not available or is not significantly relevant in relation to the hazard of the product
	Other hazards not mentioned in the classification	None

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3	COMPOSIZIONE/INFORMAZIONE SUGLI INGREDIENTI					
3.1	Substances: not applicable					
3.2	Mlxtures: WATER BASED INK. NOT HAZARDOUS BLEND OF DYESTUFFS AND PROCESS CHEMICALS					
Chemical name of hazardous substances		CAS N.	EC N.	GHS Pictograms	Classification, Hazard statements H The full text of the Hazard statementsis in section 16	Conc. [%]
None		---	---	---	---	---
There are no additional ingredients to a significant extent with respect to the significance thresholds established by Reg. 1272/2008/EC or which, in the current knowledge of the supplier and in the applicable concentrations, are classified as dangerous for health or for the environment, meet the PBT or vPvB criteria or are considered as substances with an equivalent degree of concern or substances to which an occupational exposure limit has been assigned and which must therefore be reported in this section						
No nanomaterials are used						
The upper limits of the ranges of concentration are excluded						
Occupational exposure limits, if available, are listed in Section 8						
4	FIRST AID MEASURES					
4.1	Description of first aid measures					
	Eye contact		Irrigate with a suitable eye solution or water for ten minutes, obtain medical attention			
	Skin contact		Remove any contaminated clothing. Wash with soap & flowing water			
	Swallowing		Give plenty to drink if ingestion is suspected. DO NOT induce vomiting and consult a physician			
	Inhalation		Not applicable			
	Protection of rescuers		No action shall be got involving any personal risk or without proper training			
	Other informations		None			
4.2	Most important symptoms and effects, acute and delayed					
	Inhalation		Symptoms: --- Effects: ---			
	Skin contact		Symptoms: --- Effects: ---			
	Eye contact		Symptoms: --- Effects: ---			
	Ingestion		Symptoms: nausea, abdominal pain, haemorrhagic vomiting, diarrhea, choking, coughing, severe respiratory failure Effects: If ingested, it causes irritation to the mouth, throat, esophagus and stomach			
4.3	Medical attention and special treatment					
	Treat symptomatically. If ingested or inhaled (large amounts), immediately contact a poison control center. No specific treatment is not known					

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According to Reg. 1272/2008/EC and Reg. 878/2020/EU

5	FIRE FIGHTING MEASURES	
5.1	Suitable extinguishing agents	This product is water based and is not flammable. In the event of a fire the following extinguishing means can be used: carbon dioxide (CO ₂), foam, chemical powders, in the case of fires of considerable size, also sprayed water jet
5.2	Unsuitable extinguishing agents for safety reasons	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	In case of fire, if long time exposed to high temperature, it may decompose and develop hazardous substances such as carbon oxides, heavy smokes and traces of sulfur oxides, nitrogen oxides and other decomposition substances
5.4	Protective equipment	Use protection for the respiratory tract. Cool fire exposed containers with water
5.5	Recommendations for Fire Extinguishers	Cool containers with water jets to avoid product decomposition and the development of substances potentially hazardous to health. Always wear complete fire protection equipment. Collect extinguishing water that should not be discharged into drains. Dispose of contaminated water used for fire extinguishing and residues in accordance with current regulations. Use normal fire fighting clothing such as an open-air compressor (EN 137), full flame retardant (EN469), flame retardant gloves (EN 659) and boots for firefighters (HO A29 or A30)
6	ACCIDENTAL RELEASE MEASURES	
6.1	Personal precautions, protective equipment and procedures in case of emergency	
	Person-related safety precautions	Avoid contact with eyes and ingestion
	Measures for environmental protection	Prevent contamination of soil and water. Refer to Sections 8.0 and 13.0 for additional information on Exposure and Disposal. Do not allow product to reach sewage system or any water course  
	Additional informations	Collect residues in a container identified, refer to Section 13 for disposal
6.2	Methods and materials for containment and cleaning	
	Measures for cleaning/collecting (small spill)	Collect mechanically. Treat washing waste water according to local environmental regulation
	Measures for cleaning/collecting (large spill)	Collect mechanically. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Treat washing waste water according to local environmental regulation. Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas and dispose in accordance with local regulations
6.3	Reference to other sections	
	Emergency telephone numbers	See section 1
	Protection devices individual	See section 8
	Waste treatment	See section 13

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7 HANDLING AND STORAGE		
7.1	Handling, Directions for safe handling	Verify the integrity of the markers and their boxes and containers before handling. Handle the containers with care. Avoid contact with eyes, avoid ingestion. Do not smoke in work and storage areas.  
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. Protect the container against impacts and falls. Keep away from food, drinks and animal feed.
7.3	Specific end uses	Ink of writing markers. Those ink group is not an alimentary additive
8 EXPOSURE CONTROLS / PERSONAL PROTECTION		
8.1	Control parameters	Component substance
		Value
		No available / applicable data
8.2	Exposure control	
	Recommended monitoring procedures	Use and manage the marker ink in the proper use
	Individual protection measures	The ink is not classified hazardous. 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 contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
	Environmental protection devices	Avoid polluting water
	Respiratory protection	Not necessary in normal use
	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)
	Hands protection	Not necessary in normal use. 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
	Thermal hazards	Not applicable in relation to the intended use. Wear heat-resistant gloves in case of thermal hazards
	Skin protection	Not necessary in normal use. 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
	Other informations	Keep away from foodstuffs. Wash hands thoroughly after handling the product. Keep working clothes separately. Immediately remove contaminated clothing. Follow the local Safety Management standards and instructions.

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9 PHYSICAL AND CHEMICAL PROPERTIES		
9.1	Information on basic physical and chemical properties	
	Appearance	Liquid
	Colour	Different colours and shades
	PH	6,5 ± 1
	Odour	Odourless
	Odour threshold	No available data
	Viscosity	No available data
	Density	1,04 ± 0,01 g/cm ³
	Density of vapours (air = 1)	Not applicable
	Flash point	Not applicable
	Melting temperature	≤ 0°C
	Boiling temperature	≥ 100°C
	Self-ignition temperature	Not applicable
	Explosive range	Not applicable
	Comburent properties	Not applicable
	Vapour pressure at 20°C	Water: 23,4 HPa
	Water solubility	Soluble
	Partition coefficient n-octanol/water (log Pow)	Propylene glycol = -1,07
9.2	Other informations	
	VOC (Directive 2010/75/CE)	< 0,1%
10 STABILITY AND REACTIVITY		
10.1	Reactivity	Stable in normal conditions. No further relevant information available
10.2	Chemical stability	Stable under normal conditions of handling and storage
10.3	Possibility of dangerous reactions	No dangerous reactions are known
10.4	Conditions to avoid	Avoid strong overheating.
10.5	Incompatible materials	Strong acids, strong oxidisers
10.6	Hazardous decomposition products	No further relevant information available
11 TOXICOLOGICAL INFORMATIONS		
11.1	Toxicological effects	
	Acute toxicity	CALCULATED ACCORDING TO THE NOT HAZARDOUS CHEMICAL COMPOSITION
		LD50 – Ingestion > 10000 mg/kg - not classified
		LD50 – Skin contact > 10000 mg/kg - not classified
		LC50 – Inhalation > 5000 mg/m ³ (mist) - not classified
	Chronic toxicity	Classification criteria are not met
	Effect on eye	Classification criteria are not met
	Effect on skin	Classification criteria are not met
	Inhalation	Classification criteria are not met
	Sensitisation	Classification criteria are not met

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	Ingestion	Classification criteria are not met
	Toxic effect by skin contact	Classification criteria are not met
	Specific Target Organ Toxicity (STOT) — single or repeated exposure	Classification criteria are not met
	Hazards by aspiration	Classification criteria are not met.
11.2	CMR properties	
	Carcinogenicity	Classification criteria are not met
	Mutagenicity	Classification criteria are not met
	Toxicity for reproduction	Classification criteria are not met
11.3	Other information: metabolism, kinetics, mechanism of action, effects on the endocrine system for short and long term effects	
	No relevant effect are noticed.	
	Effects on human endocrine system: none.	
	Interactive effects: none.	
	Possible exposition route: ingestion, inhalation of mist, skin/eye contact	

12	ECOLOGICAL INFORMATION	
12.1	Acute toxicity	The components of the product are not classified as hazardous to the environment
		Acute or long-term effects on aquatic environment: no available data
12.2	Persistence and degradability	All organic components present in the mixture are biodegradable.
12.3	Bioaccumulative potential	No bioaccumulation components are used
12.4	Mobility in soil	Because of the physical properties and chemical composition, a high soil mobility is expected
12.5	Results of PBT and vPvB assessment	For evaluations of the PBT and vPvB assessment of the substances/mixtures contained in the product, see the information on the individual components. This mixture contains no substances evaluated persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).
12.6	Properties of interference with the endocrine system	Classification criteria are not met. No effects are known
12.7	Other adverse effects	No other informations

13	DISPOSAL CONSIDERATIONS	
The information in this section contains instructions and general notes. The list of identified uses in section 1 for specific information available		
13.1	Waste treatment methods	Product The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the law on environmental protection and waste disposal legislation and the requirements of any relevant local authorities. Dispose of surplus and non-recyclable products via a licensed waste disposal. The untreated waste should not be disposed of in the sewer system unless they are not fully compliant with the requirements of each institution and legislation. Hazardous waste: no
		Packaging The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Dispose of this material and its container must be with proper precautions. Empty containers or liners may retain some product residues. Prevent drift and runoff of spilled material and contact with soil, waterways, drains and sewers

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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	UN number	Not applicable
14.2	Proper shipping name	Land transport, road and rail (ADR/RID): not applicable Transport by sea (IMDG): not applicable Air transport (ICAO-TI / IATA-DGR): not applicable
14.3	Transport hazard classes	Land transport (ADR/RID): Not regulated Transport by sea (IMDG): Not regulated Air transport (ICAO-TI / IATA-DGR): Not regulated
14.4	Packing group	Not applicable
15.5	Environmental hazards	Land transport (ADR/RID): No Transport by sea (IMDG): No Air transport (ICAO-TI / IATA-DGR): No
14.6	Special precautions for users	Transport within the user's properties: always transport with closed containers, stored vertically and secured to the means of transport. Check the suitability of the people carrying out the transport to intervene effectively in the event of an accident and/or spill
14.7	Transport in bulk according to Annex II of MARPOL 73/8 and the IBC Code	Not applicable
15	REGULATORY INFORMATION	
15.1	Main regulatory references	Reg. 1272/2008/EC of the European Parliament and of the Council (classification, labeling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Directive 1907/2006/EC. Restrictions according to Annex 17 of Reach Reg. and subsequent amendments: none Substances included in the candidate list (SVHC) at the date of issue of this card: none Substances subject to authorization (Annex 14 to Reg. Reach): none Germany, Administrative Regulation of Substances Hazardous to Water (VwVwS). Water hazard class: WGK 1 (low hazardous to water) Dir. Seveso III (relevant industrial risks): not applicable ROHS III Directive: not applicable Reg. 648/2004/EC concerning detergents: not applicable Reg. 590/2024/UE on substances that deplete the ozone layer: not applicable Reg. 1021/2019/UE relating to persistent organic pollutants: not applicable Reg. 1148/2019/EU relating to explosives precursors: not applicable Dir. 2009/48/EC concerning the safety of toys: applicable
15.2	Chemical safety assessment	Not applicable

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16	OTHER INFORMATIONS	
16.1	Full text of H statements, sections 2 and 3 Abbreviations and acronyms	None ACGIH: American Conference of Governmental Industrial Hygienist. ADN: European Agreement concerning the international carriage of dangerous goods by inland waterways. ADR: European Agreement concerning the international carriage of dangerous goods by road. BEI: Biological exposure limit: it indicates the relative biological agent or its metabolite established by ACGIH. EC50: Median effective concentration: the effective concentration of substance that causes in the 50% of individuals a different effect from death (immobilization, stunting etc.). LC0: The highest dose used that does not cause any death. DFG: German Commission for the study of the health hazards of chemicals in the workplace. LD50: Median dose: single dose of substance, statistically evaluated, which is expected to cause death in 50% of treated animals. PPE: Personal protective equipment IARC: International Agency for Research on Cancer. IBC: International Bulk Chemical Code: International Code for Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk. ICAO: International Civil Aviation Organisation; it refers to Annex 18 of the Convention on International Civil Aviation "Safety of air transport of dangerous goods". IMDG: Intern. Maritime Dangerous Goods code for transport of dangerous goods by sea. IMO: International Maritime Organization. Kow: Partition coefficient between n-octanol and water. It is defined as the ratio between the equilibrium concentrations of a dissolved substance in a system consisting of n-octanol and water. It is a measure of the lipophilicity of the substance. LOAEL: Lowest Observed Adverse Effect Level MAK: Maximum concentration of a chemical substance (as gas, vapor or particulate matter) in the workplace air which generally does not cause adverse effects on workers' health nor cause annoyance even when the person is repeatedly exposed during long periods (typically 8 hours per day, assuming an average of 40 hours of work per week). MARPOL: Protocol on Transport in bulk according to IMO. NOEC: No Observed Effect Concentration NOEL: No Observed Effect Level RID: European Agreement concerning the international carriage of dangerous goods by rail STEL: Threshold Limit Value - Short Term Exposure Limit: the concentration to which it is considered that workers can be exposed continuously for 15 minutes to up to 4 times per day with an interval of 60 minutes between exposures without suffering adverse effects. TLV: Threshold Limit Value established by ACGIH. TWA: Threshold Limit Value - Time-Weighted Average: the concentration for a conventional 8-hour workday and a 40-hour workweek, to which it is considered that nearly all workers may be repeatedly exposed, day after day, for a working lifetime without adverse effects. DNEL: Derived No-Effect Level PNCE: Predicted no-effect concentration
16.2	Bibliographic references	ECDIN - Environmental Chemical Data and Information Network IUCLID - International Uniform Chemical Information Data Base ECHA C&L inventory NIOSH - Registry of Toxic Effects of Chemical Substances IFA_GESTIS - http://limitvalue.ifa.dguv.de/ HSDB TOXNET - https://toxnet.nlm.nih.gov/

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16.3	Changes to previous version	Formal review of all sections. No significant changes in sections compared to previous edition
16.4	Further informations	The information herein is correct at the Reg 1272/2008/EC and following amendments. Product conforms to the requirements provided in Title II of Regulation 1907/2006/EC (the registration of substances). None of the substances in this product is subject to authorization (annex 14) or is included in the candidate list of SVHCs under the REACH Regulation, the issuance of this sheet
16.5	Disclaimer	This Safety Information Sheet complies with the requirements of Reg 878/2020/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 details. 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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