SAFETY DATA SHEET

PRODUCT NAME: **Powdered Ink**

DWS Product Code: **S02070**

Date of preparation: **20 August 2018**

Supersedes version dated: February 2004

1.	**Identification of the substance / mixture and of the company / undertaking**		
1.1	Product Identifier	Product name: Powdered ink DWS product code: S02070	
1.2	Relevant identified uses of the substance or mixture and uses advised against	Laboratory chemicals. Manufacture of substances.	
1.3	Details of the supplier of the safety data sheet	Don Whitley Scientific Limited, Victoria Works, Victoria Street, Bingley, West Yorkshire, BD16 2NH, United Kingdom.	
1.4	Emergency telephone number:	+44 (0)1274 595728 [0900-1700 UK time]	
2.	**Hazards identification**		
2.1	Classification of the substance or mixture		
	Classification under CLP	Not classified as hazardous according to Regulation (EC) 1272/2008	
2.2	Label elements		
	Label elements under CLP		
	Hazard pictograms	None	
	Signal word	None	
	Hazard statements	None	
	Precautionary statements	None	
2.3	Other hazards	None identified	
3.	**Composition / information on ingredients**		
3.1	Substances	Substance name	C.I. Acid Blue 93
		CAS-No.	28983-56-4
		Hazardous components	No hazardous ingredients
4.	**First aid measures**		
4.1	Description of first aid measures		
	Inhalation:	If you feel unwell, seek medical advice (show the SDS where possible). Move the exposed person to fresh air.	
	Eye contact:	Rinse the affected eye with plenty of water; at the same time keep the unaffected eye well protected. Seek medical attention.	
	Skin contact:	Wash with soap and water.	
	Ingestion:	Do not induce vomiting. Seek medical advice (show the SDS where possible)	
4.2	Most important symptoms and effects, both acute and delayed		
	Inhalation / Eye contact / Skin contact / Ingestion: No symptoms known currently .		
4.3	Indication of any immediate medical attention and special treatment needed		
	Treatment:	Treat symptomatically.	

5.	**Firefighting measures**	
5.1	Extinguishing media	
	Suitable extinguishing media: Water spray, Foam Unsuitable extinguishing media: High volume water jet , Carbon dioxide (CO_2), Dry powder	
5.2	Special hazards arising from the substance or mixture	
	In case of fire hazardous decomposition products may be produced such as: Carbon monoxide (CO), Carbon dioxide (CO_2), Nitrogen oxides (NO_2), Sulphur dioxide (SO_2)	
5.3	Advice for firefighters	No additional information available
6.	**Accidental release measures**	
6.1	Personal precautions, protective equipment and emergency procedures	Wear suitable protective clothing, gloves and eye / face protection as described in section 8 below.
6.2	Environmental precautions	Should not be released into water courses or the environment. See section 12 for additional ecological information.
6.3	Methods and material for containment and cleaning up	Sweep up or clean the area using a vacuum cleaner. Clean spillage area thoroughly with plenty of water.
6.4	Reference to other sections	Refer to protective measures listed in Sections 8 and 13.
7.	**Handling and storage**	
7.1	Precautions for safe handling	Avoid contact with eyes. Avoid prolonged contact with skin. Avoid generating dust.
7.2	Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store in original container.
7.3	Specific end use(s)	For laboratory use only
8.	**Exposure controls / personal protection**	
8.1	Control parameters	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by regulatory bodies.
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	Not required under normal conditions of use.
8.2.2	Individual protection measures, such as personal protective equipment	
	Respiratory protection:	If process creates dusk, wear dust mask certified to EN149:2001 +A1:2009.
	Hand protection:	For prolonged or repeated contact, wear gloves certified to EN374. Observe manufacturer's instructions regarding permeability and breakthrough time.
	Eye protection:	If splashes or dust formation are likely, wear safety glasses with side-shields, certified to EN 166.
	Skin protection:	Long sleeved protective clothing (laboratory coat).
	Environmental exposure controls:	Avoid dust formation.

9.	Physical and chemical properties	
9.1	Information on basic physical properties and chemical properties	
(a)	Appearance	Solid; powder
(b)	Odour	Not specified
(c)	Odour threshold	Not required
(d)	pH	4.0 – 6.5
(e)	Boiling point	Not applicable
(f)	Flash point	Not applicable
(g)	Evaporation rate	Not applicable
(h)	Flammability (solid, gas)	Not determined
(i)	Burning number	Not determined
(j)	Upper explosion limit	Not determined
(k)	Lower explosion limit	Not determined
(l)	Vapour pressure	Not applicable
(m)	Relative vapour density	Not determined
(n)	Relative density	No data available
(o)	Density	Not determined
(p)	Bulk density	0.78 kg/m^3
(q)	Solubility	Water solubility: 70 g/l (20°C)
(r)	Partition coefficient: n-octanol/water	Not determined
(s)	Auto-ignition temperature	Not determined
(t)	Decomposition temperature	230 °C
(u)	Viscosity	Not applicable
(v)	Oxidizing properties	No data available
9.2	Other information	Self-ignition temperature: 340°C
10.	**Stability and reactivity**	
10.1	Reactivity	No dangerous reaction known under conditions of normal use.
10.2	Chemical stability	Stable
10.3	Possibility of hazardous reactions	Strong oxidizing agents
10.4	Conditions to avoid	None known.
10.5	Incompatible materials	See section 10.3. "Possibility of hazardous reactions"
10.6	Hazardous decomposition products	No decomposition if stored and applied as directed.

11.	Toxicological information		
11.1	Information on toxicological effects		
	Acute toxicity	Acute oral toxicity	LD50 (Rat, female): > 5000 mg/kg Note: The toxicological data has been taken from products of similar composition.
		Acute inhalation toxicity	No information available.
		Acute dermal toxicity	No information available.
	Skin corrosion / irritation	Species: Rabbit. Result: No skin irritation Note: Data has been taken from products of similar composition.	
	Serious eye damage/eye irritation	Species: Rabbit. Result: No eye irritation Note: Data has been taken from products of similar composition.	
	Respiratory or skin sensitisation	No information available.	
	Germ cell mutagenicity	No information available.	
	Carcinogenicity	No information available.	
	Reproductive toxicity	No information available.	
	STOT - single exposure	No information available.	
	STOT - repeated exposure	No information available.	
	Repeated dose toxicity	No information available.	
	Aspiration toxicity	No information available.	
	Additional information	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
12.	**Ecological information**		
12.1	Toxicity	Toxicity to fish	No information available.
		Toxicity to daphnia and other aquatic invertebrates	No information available.
		Toxicity to algae	No information available.
		Toxicity to fish	No information available.
		Toxicity to microorganisms	No information available.
12.2	Persistence and degradability	Biodegradation: < 10 % NOTE: Pigments are highly stable in accordance with the specifications and therefore only slightly biodegradable in the conditions of sewage treatment plants or surface waters. Can be eliminated from water by precipitation. Can be eliminated from water by flocculation.	
12.3	Bioaccumulative potential	No information available.	
12.4	Mobility in soil	No information available.	
12.5	Results of PBT and vPvB assessment	This substance contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).	

12.6	Other adverse effects	Environmental fate and pathways	No information available.
		Additional ecological information	The product should not be allowed to enter drains, watercourses or the soil.

13. Disposal considerations

13.1 Waste treatment methods

Disposal operations:	Transfer to a suitable container and arrange for collection by a licensed disposal company.
Recovery operations:	Not applicable.
Disposal of packaging:	Dispose of as normal industrial waste.
Important note:	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport information

14.1	UN Number	ADR AND RID IATA IMDG	Not restricted
14.2	UN proper shipping name		
14.3	Transport hazard class(es)		
14.4	Packing group		
14.5	Environmental hazards		
14.6	Special precautions for user	See sections 6 to 8 of this Safety Data Sheet.	
14.7	Transport in bulk according to Annex II of Marpol and IBC Code	Not applicable (packaged goods).	

15. Regulatory information

15.1	Safety, health and environmental regulations / legislation specific for the substance or mixture	Not applicable
15.2	Chemical safety assessment	No Chemical Safety Assessment (CSA) has been carried out for the substance contained in this product.

16. Other information

Legal Disclaimer: The information given in this safety data sheet is based on our knowledge of this product at the time of publication and is given in good faith. It is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Don Whitley Scientific Limited provides no warranty with respect to this information and disclaims all liability associated with its use.

Revision comments: This SDS has been revised (additional data provided) to comply with the requirements of Annex II to Regulation (EC) 1907/2006 as amended by Commission Regulation (EU) 2015/830.