



NEOAQUA BCW - BLACK MAGNETIC INK CONCENTRATE – WATER BASED

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010

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

1.1 Product identifier	
Product Name	NEOAQUA BCW - BLACK MAGNETIC INK CONCENTRATE – WATER BASED.
CAS No.	Mixture.
EINECS No.	Mixture.
REACH Registration No.	None assigned.
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Identified use(s)	For use in the Magnetic Particle Inspection process BS EN ISO 9934-2:2002. Dilution rate 50:1 with water.
Uses advised against	None known.
1.3 Details of the supplier of the Safety Data Sheet	
Company Identification	Johnson and Allen Ltd Neocol Works Smithfield Sheffield S3 7AR.
Telephone	0114 2738066
Fax	0114 2729842
E-Mail (competent person)	info@johnsonandallen.co.uk
1.4 Emergency telephone number	
Emergency Phone No.	0114 2738066 (UK office hours 08.30-17.00)

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
2.1.1 Regulation (EC) No. 1272/2008 (CLP)	Not classified as dangerous for supply/use.
2.1.2 Directive 67/548/EEC & Directive 1999/45/EC	Not classified as dangerous for supply/use.
2.2 Label elements	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name	NEOAQUA BCW - BLACK MAGNETIC INK CONCENTRATE – WATER BASED.
Hazard Pictogram	None.
Signal word(s)	None.
Hazard statement(s)	None.
Precautionary statement(s)	None.
2.3 Other hazards	None.
2.4 Additional Information	None.



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3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Triiron tetraoxide	>75	1317-61-9	215-277-5	01-2119457646-28-0000	None
Polyoxyethylene (7) tridecyl ether	<1	78330-21-9	None assigned	None assigned	GHS05, Eye Dam. 1; H318, GHS07, Acute Tox. 4; H302

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases
Triiron tetraoxide	>75	1317-61-9	215-277-5	01-2119457646-28-0000	None
Polyoxyethylene (7) tridecyl ether	<1	78330-21-9	None assigned	None assigned	Xn; R22, Xi; R41

3.2 Additional Information

For full text of H/P phrases see section 16.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, obtain medical attention.
Skin Contact	Wash with plenty of soap and water. If symptoms persist, obtain medical attention.
Eye Contact	Flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, obtain medical attention.
Ingestion	Wash out mouth with water. If symptoms persist, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed Unlikely to be required but if necessary treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed No special requirements.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media	As appropriate for surrounding fire.
Unsuitable Extinguishing Media	None known.

5.2 Special hazards arising from the substance or mixture Toxic fumes may be produced in a fire.

5.3 Advice for fire-fighters Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire.



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6. SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures** Caution - spillages may be slippery. Ensure adequate ventilation. Wear suitable gloves and eye/face protection.
- 6.2 **Environmental precautions** Do not release large quantities into the surface water or into drains.
- 6.3 **Methods and material for containment and cleaning up** Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with water.
- 6.4 **Reference to other sections** See Also Section 8, 13.





7. SECTION 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** Provide adequate ventilation. Wear suitable gloves and eye/face protection. Wash hands and exposed skin after use.
- 7.2 **Conditions for safe storage, including any incompatibilities** Keep in a cool, well ventilated place.
Storage Temperature Ambient. Keep at temperature not exceeding (°C): 50°C.
Storage Life Stable under normal conditions.
Incompatible materials Strong oxidising agents, Acids.
- 7.3 **Specific end use(s)** For use in the Magnetic Particle Inspection process BS EN ISO 9934-2:2002. Dilution rate 50:1 with water.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Control parameters**
- 8.1.1 **Occupational Exposure Limits**

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Not established						

- 8.1.2 **Biological limit value** Not established.
- 8.1.3 **PNECs and DNELs** Not established.
- 8.2 **Exposure controls**
- 8.2.1 **Appropriate engineering controls** Provide adequate ventilation.
- 8.2.2 **Personal protection equipment**
- Eye/face protection  Wear protective eye glasses for protection against liquid splashes.
- Skin protection (Hand protection/ Other)  Recommended: Wear suitable gloves.
- Respiratory protection  Not normally required.
- Thermal hazards  Not applicable.
- 8.2.3 **Environmental Exposure Controls** Do not release large quantities into the surface water or into drains.



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9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Black (Shaken).
Odour	Barely perceptible odour.
Odour Threshold (ppm)	Not established.
pH (Value)	Not available.
Melting Point (°C)	>1500°C (Triiron tetraoxide)
Boiling Point (°C)	Not available.
Flash Point (°C)	Not applicable.
Evaporation rate	Not applicable.
Flammability	Non-flammable.
Explosive limit ranges	Not applicable.
Vapour Pressure (mm Hg)	Not applicable.
Vapour Density (Air=1)	Not available.
Density (g/ml) @ 20°C	4.6g/ml (Triiron tetraoxide)
Specific Gravity	Not available.
Solubility (Water)	Soluble.
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Temperature (°C)	Not applicable.
Decomposition Temperature (°C)	Not available.
Kinematic Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	No information available.

9.2 Other information

None.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Stable under normal conditions.
10.4 Conditions to avoid	Heat and direct sunlight.
10.5 Incompatible materials	Strong oxidising agents, Acids.
10.6 Hazardous Decomposition Product(s)	None known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

Unlikely to cause harmful effects under normal conditions of handling and use.

11.1 Information on toxicological effects

11.1.1 Mixtures

Acute toxicity	Low acute toxicity. Triiron tetraoxide: Oral: LD50(rat) >10000mg/kg
Irritation	Not classified.
Corrosivity	Not classified.
Sensitisation	It is not a skin sensitiser.
Repeated dose toxicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Mutagenicity	None anticipated.
Toxicity for reproduction	Not classified.

11.2 Other information

None.



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12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Low toxicity to aquatic organisms. Triiron tetraoxide:
12.2	Persistence and degradability	Fish: LC0 (Golden orfe)(48 hour) >1000mg/l The product is biodegradable. Unlikely to persist.
12.3	Bioaccumulative potential	The product has no potential for bioaccumulation.
12.4	Mobility in soil	Soluble in water. The product is predicted to have high mobility in soil.
12.5	Results of PBT and VPvB assessment	Not classified as PBT or vPvB.
12.6	Other adverse effects	None.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Dispose of contents/container to: Licensed recycler. Refer to manufacturer for information on recovery/recycling. Do NOT landfill.
13.2	Additional Information	Disposal should be in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

14.1	UN number	Not applicable.
14.2	UN Proper Shipping Name	Not applicable.
14.3	Transport hazard class(es)	Not applicable.
14.4	Packing Group	Not applicable.
14.5	Environmental hazards	Not applicable.
14.6	Special precautions for user	Not applicable.
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

15. SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations	
	Authorisations and/or restrictions on use	None known.
15.1.2	National regulations	None known.
15.2	Chemical Safety Assessment	Not available.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
Eye Dam. 1	Serious eye damage/irritation Category 1
Acute Tox. 4	Acute toxicity Category 4
Xn	Harmful



NEOAQUA BCW - BLACK MAGNETIC INK CONCENTRATE – WATER BASED

Xi Irritant

Risk Phrases

R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.

Hazard statement(s)

H302 Harmful if swallowed.
H318 Causes serious eye damage.

Hazard pictogram(s) and Hazard Symbol

Xi



Xn



GHS05



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Annex to the extended Safety Data Sheet (eSDS)

No information available.