


NEOAQUA BCW - BLACK MAGNETIC INK CONCENTRATE – WATER BASED
SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

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. 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	Company	0114 2738066 (UK office hours 08.30-17.00)

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	Regulation (EC) No. 1272/2008 (CLP)	Eye Irrit. 2; Causes serious eye irritation.
2.2 Label elements	Product Name	According to Regulation (EC) No. 1272/2008 (CLP) NEOAQUA BCW - BLACK MAGNETIC INK CONCENTRATE – WATER BASED.
	Hazard Pictogram	
	Signal word(s)	GHS07
	Hazard statement(s)	Warning.
	Precautionary statement(s)	H319: Causes serious eye irritation. P264: Wash hands thoroughly after handling. P280: Wear protective gloves/eye protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention.
2.3 Other hazards		None.
2.4 Additional Information		Dilution rates for use - 50 : 1 (demineralised water : BCW). It is not classified as hazardous after dilution.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 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)
Alcohols, C11-14-iso-, C13-rich, ethoxylated	1 – 5	78330-21-9	616-609-5	None assigned	GHS05, Eye Dam. 1; H318, GHS07, Acute Tox. 4; H302
2-aminoethanol; ethanolamine (neutralised)	1 - 5	141-43-5	205-483-3	01-2119486455-28-XXXX	GHS07, Acute Tox. 4; H302, Acute Tox. 4; H312, Acute Tox. 4; H332, Aquatic Chronic 3; H412
2-aminoethanol; ethanolamine	<1	141-43-5	205-483-3	01-2119486455-28-XXXX	GHS05, Skin Corr. 1B; H314, GHS07, Acute Tox. 4; H302, Acute Tox. 4; H312, Acute Tox. 4; H332, Aquatic Chronic 3; H412
(2-methoxymethylethoxy) propanol	<1	34590-94-8	252-104-2	01-2119450011-60-XXXX	Not classified

3.3 Additional Information

For full text of H/P Statements 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. Remove contaminated clothing and wash clothing before reuse. If symptoms persist, obtain medical attention.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

Wash out mouth with water. If symptoms persist, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Eye Contact: Redness, Irritation, Pain.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

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.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** 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. Avoid contact with eyes. Wear protective gloves/eye 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. 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
2-Aminoethanol	141-43-5	1	2.5	3	7.6	Sk
2-Aminoethanol	141-43-5	1	2.5	3	7.6	IOELV, Skin
(2-methoxymethylethoxy)propanol	34590-94-8	50	308			Sk
(2-methoxymethylethoxy)propanol	34590-94-8	50	308	0	0	IOELV, Skin

Region	Source
Europe	EU Occupational Exposure Limits
United Kingdom	Workplace Exposure Limits (WEL)
IOELV	IOELV: Indicative Occupational Exposure Limit Value
Sk	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.
Skin	The possibility of significant uptake through the skin.

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 eye protection with side protection (EN166).
	
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.

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	Not established.
pH	Not available.
Melting Point/Freezing Point	>1500°C (Triiron tetraoxide)
Initial boiling point and boiling range	Not available.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not available.
Density (g/ml)	4.6g/ml (Triiron tetraoxide) @ 20°C
Specific Gravity	Not available.
Solubility (Water)	Soluble.
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	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	No hazardous reactions known if used for its intended purpose.
10.4	Conditions to avoid	Heat and direct sunlight.
10.5	Incompatible materials	Strong oxidising agents, Acids.
10.6	Hazardous Decomposition Product(s)	No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

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

11.1	Information on toxicological effects	
	Acute toxicity	Low acute toxicity. Triiron tetraoxide: Oral: LD50(rat) >10000mg/kg
	Skin corrosion/irritation	Not classified.
	Serious eye damage/irritation	Causes serious eye irritation.
	Respiratory or skin sensitisation	It is not a skin sensitiser.
	Germ cell mutagenicity	There is no evidence of mutagenic potential.
	Carcinogenicity	No evidence of carcinogenicity.
	Reproductive toxicity	Not classified.
	STOT - single exposure	None anticipated.
	STOT - repeated exposure	None anticipated.
	Aspiration hazard	Not classified.
11.2	Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Low toxicity to aquatic organisms. Triiron tetraoxide: Fish: LC0 (Golden orfe)(48 hour) >1000mg/l
12.2	Persistence and degradability	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**
- | | |
|---|-----------------------------------|
| Candidate List of Substances of Very High Concern for Authorisation | All chemicals are not listed. |
| REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | All chemicals are not listed. |
| REACH: ANNEX XIV list of substances subject to authorisation | All chemicals are not listed. |
| Community Rolling Action Plan (CoRAP) | Listed: 2-aminoethanol (141-43-5) |
- 15.1.2 **National regulations** None known.
- 15.2 **Chemical Safety Assessment** Not applicable.

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
Eye Irrit. 2	Serious eye damage/irritation Category 2
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Acute Tox. 4	Acute toxicity Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, Chronic, Category 3

Hazard statement(s)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Hazard pictogram(s)

GHS05



GHS07





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Annex to the extended Safety Data Sheet (eSDS)

Not applicable.