

NEOCOL B - AEROSOL

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 and SI 2020/1577

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

1.1 Product identifier

Product Name NEOCOL B - AEROSOL

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) A Black Magnetic Ink for use in the Magnetic Particle Inspection Process (BS EN ISO 9934-2:2002).

Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer Johnson and Allen Ltd
 Company Identification Neocol Works
 Address of Manufacturer Smithfield
 Sheffield
 Postal code S3 7AR
 Telephone 0114 2738066
 Fax 0114 2729842
 E-mail info@johnsonandallen.co.uk
 Office hours 08:30 - 17:00

Only representative
 Company Identification
 Address

DIMART S.r.l.
 Via A. Einstein
 13 Sedriano MI
 Italy
 Postal code 20018
 Telephone +390290310207
 Fax +390290310208

1.4 Emergency telephone number

Company 0114 2738066 (UK office hours 08.30-17.00)
 NHS Direct +44 111

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567 Aerosol 1 :Extremely flammable aerosol. Pressurised container: May burst if heated.
 UK SI 2020/1567 Asp. Tox. 1 :May be fatal if swallowed and enters airways.

2.2 Label elements

According to GB CLP Regulations, UK SI 2019/720 and UK SI 2020/1567

Product Name NEOCOL B - AEROSOL
 Hazard Pictogram(s)



GHS02



GHS08

Signal Word(s) Danger
 Hazard Statement(s)

H222: Extremely flammable aerosol.
 H229: Pressurised container: May burst if heated.
 H304: May be fatal if swallowed and enters airways.
 EUH066: Repeated exposure may cause skin dryness or cracking.
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211: Do not spray on an open flame or other ignition source.
 P251: Do not pierce or burn, even after use.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
 P331: Do NOT induce vomiting.
 P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

2.3 Other hazards

None known.

2.4 Additional Information

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

NEOCOL B - AEROSOL**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Product as supplied: Aerosol.

3.1 Substances

Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / Registration number(s)	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	None assigned	920-107-4	>90	Asp. Tox. 1 H304 EUH066	GHS08
Carbon dioxide	124-38-9	204-696-9	1-10	Press. Gas (Comp.) H280	GHS04
Triiron tetraoxide	1317-61-9	215-277-5	<1	Not classified	None

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

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	Flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, obtain medical attention.
Ingestion	Do NOT induce vomiting. Immediately call a POISON CENTRE/doctor.

4.2 Most important symptoms and effects, both acute and delayed

Aspiration into the lungs may cause chemical pneumonitis, which can be fatal. May be fatal if swallowed and enters airways.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Flammable aerosol. Pressurised container: May burst if heated.

5.1 Extinguishing media

Suitable Extinguishing media	Extinguish with waterspray, foam or dry chemical.
Unsuitable extinguishing media	None known.

5.2 Special hazards arising from the substance or mixture

Heating may cause pressure rise with risk of bursting.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

The product is an aerosol. It is unlikely to present spillage or leakage hazard. In case of rupture, released content should be contained as any other solvent spill.

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Wear suitable protective clothing, 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

Collect mechanically and dispose of according to Section 13. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal or recovery. Containers must not be punctured or destroyed by burning, even when empty.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurised container - Do not pierce or burn, even after use. Provide adequate ventilation. Wear suitable gloves and eye/face protection. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke during work.

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7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Protect from sunlight. Store locked up.
Storage life	Do not expose to temperatures exceeding 50°C/ 122°F.
Incompatible materials	Stable under normal conditions.
	Strong oxidising agents, Natural rubber, Polystyrene, Butyl rubber.

7.3 Specific end use(s)

A Black Magnetic Ink for use in the Magnetic Particle Inspection Process (BS EN ISO 9934-2:2002).

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
Carbon dioxide	124-38-9	5000	9150	15000	27400	

Region: United Kingdom
Source: UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

8.2 Exposure controls

8.2.1. Appropriate engineering controls Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection.

8.2.2. Personal protection equipment



Eye Protection

Not normally required. Handling of larger amounts: Wear goggles giving complete eye protection.



Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374).
Breakthrough time of the glove material: refer to the information provided by the gloves' producer.



Respiratory protection

Not normally required. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.



Thermal hazards

During spraying wear suitable respiratory equipment: A suitable mask with filter type A (EN14387 or EN405) may be appropriate. Use a respirator/filter with at least: PF10: 10 x Protection Factor.
Not applicable.

8.2.3. Environmental Exposure Controls Do not release large quantities into the surface water or into drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Aerosol Colour: Dark grey/Black (Shaken).
Odour	Paraffinic.
Odour threshold	Not established.
pH	Not known.
Melting point/freezing point	Not known.
Initial boiling point and boiling range	235 - 270°C
Flash Point	Extremely flammable aerosol.
Evaporation rate	Not known.
Flammability (solid, gas)	Not known.
Upper/lower flammability or explosive limits	Not known.
Vapour pressure	0.015 mm Hg @ 20°C
Vapour density	Not known.
Density (g/ml)	Not known.
Relative density	0.82
Solubility(ies)	Solubility (Water): Immiscible with water. Solubility (Other): Not known.
Partition coefficient: n-octanol/water	Not known.
Auto-ignition temperature	Not known.

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Decomposition Temperature (°C)	Not known.
Viscosity	3.2cSt @ 40°C
Explosive properties	Pressurised container: May burst if heated.
Oxidising properties	Not oxidising.
9.2 Other information	None.

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	Keep away from heat and direct sunlight.
10.5 Incompatible materials	Strong oxidising agents, Natural rubber, Polystyrene, Butyl rubber.
10.6 Hazardous decomposition products	No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute toxicity - Ingestion	Calculation method : Not classified. Low oral toxicity. Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics: LD50 (rat) > 5000 mg/kg (OECD 401).
Acute toxicity - Skin Contact	Calculation method : Not classified. Low acute toxicity. Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics: LD50 (rabbit) > 5000 mg/kg (OECD 402).
Acute toxicity - Inhalation	Calculation method : Not classified. Low acute toxicity. Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics: LC50 (rat) (4 hours) > 4951 mg/m ³ (OECD 403).
Skin corrosion/irritation	Calculation method : Not classified. Non-irritant.
Serious eye damage/irritation	Calculation method : Not classified. Non-irritant.
Skin sensitization data	Calculation method : Not classified. It is not a skin sensitiser.
Respiratory sensitization data	Calculation method : Not classified.
Germ cell mutagenicity	Calculation method : Not classified. There is no evidence of mutagenic potential.
Carcinogenicity	Calculation method : Not classified. No evidence of carcinogenicity.
Reproductive toxicity	Calculation method : Not classified.
Lactation	Calculation method : Not classified.
STOT - single exposure	Calculation method : Not classified.
STOT - repeated exposure	Calculation method : Not classified.
Aspiration hazard	Calculation method : May be fatal if swallowed and enters airways. No data. Aspiration into the lungs may cause chemical pneumonitis, which can be fatal.
11.2 Other information	Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Low toxicity to aquatic organisms.
12.2 Persistence and degradability	The product is not biodegradable. There is evidence of photodegradation in air. The product is unlikely to persist in the environment.
12.3 Bioaccumulative potential	The product has potential for bioaccumulation.
12.4 Mobility in soil	Immiscible with water. The product is predicted to have low mobility in soil. The product is volatile and will partition into the atmosphere. Higher molecular weight hydrocarbons: The substance may adsorb onto soils and sediments.

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12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-emptied aerosol: Dispose of wastes in an approved waste disposal facility.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN No. 1950

14.2 UN proper shipping name

UN proper shipping name AEROSOLS

14.3 Transport hazard class(es)

ADR/RID

ADR/RID Class 2

ADR Classification Code 5F

Special Provisions 190, 327, 344, 625

Limited Quantities 1 L

Excepted Quantities E0

Emergency Action Code

Mixed Packing Instructions for Packages P207 LP200

Special Packing Provisions for Packages PP87 RR6 L2

Mixed Packing Instructions for Packages MP9

Packing Instructions for Portable Tanks

Special Provisions for Portable Tanks

Tank Code for Tanks

Special Provisions for Tanks

Vehicle for Tank Carriage

ADR Transport Category 2

Tunnel Restriction Code D

Special Provisions for Carriage - Packages V14

Special Provisions for Carriage - Bulk

Special Provisions for Carriage - Loading, Unloading and Handling CV9 CV12

Special Provisions for Carriage - Operation S2

ADR HIN

IMDG

IMDG Class 2

Special Provisions 190, 327, 344, 625

Limited Quantities 1 L

Excepted Quantities E0

Mixed Packing Instructions for Packages P207 LP200

Special Packing Provisions for Packages PP87 RR6 L2

Packing Instructions for Portable Tanks

Special Provisions for Portable Tanks

IMDG EMS F-D, S-U

Stowage and Handling SW1 SW22

Segregation SG69

Marine Pollutant

ICAO/IATA

IATA Proper Shipping Name AEROSOLS

Excepted Quantities E0

Passenger and Cargo Aircraft Limited Quantities Packing Instructions Y203

Passenger and Cargo Aircraft Limited Quantities Max net Qty 30Kg

Passenger and Cargo Aircraft Packing Instructions 203

Passenger and Cargo Aircraft Packing Instructions

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Passenger and Cargo Aircraft Max net Qty	75Kg
Cargo Aircraft Packing Instructions	203
Cargo Aircraft Max net Qty	150Kg
Special Provisions	A145, A167, A802
Emergency Response Guidebook (ERG) Code	10L
Labels	
Labels	2.1



14.4 Packing group

Packing group

14.5 Environmental hazards

Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

Special precautions for user

Not known.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No information available

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

United Kingdom Regulations - Authorisations and/or Restrictions On Use

UK REACH Candidate List of Substances Not listed

of Very High Concern for Authorisation

UK REACH Authorisation List (Annex XIV) list of substances subject to

authorisation

UK REACH Restrictions List (Annex XVII) Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics (EC No.

Restrictions on the manufacture, placing 920-107-4)

on the market and use of certain

dangerous substances, mixtures and

articles

UK REACH Rolling Action Plan (RAP) Not listed

The Persistent Organic Pollutants

Regulations 2007 (SI 2007/3106) as

amended

The Ozone-Depleting Substances and

Fluorinated Greenhouse Gases

(Amendment etc.) (EU Exit) Regulations

2019 (SI 2019/583)

The Prior Informed Consent (PIC) Not listed

Regulations concerning the export and

import of hazardous chemicals

SI2008/2108 as amended

European Regulations - Authorisations and/or Restrictions On Use

Community Rolling Action Plan (CoRAP) Not listed

15.2 Chemical Safety Assessment

United Kingdom

Not applicable.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

1-16

LEGEND

Hazard Pictogram(s)



GHS02



GHS08

Hazard classification

GHS04: GHS: Gas cylinder

Aerosol 1 : Aerosol, Category 1

Press. Gas (Comp.) : Gases under pressure, Compressed gas

Asp. Tox. 1 : Aspiration hazard, Category 1

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Hazard Statement(s)	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated. H280: Contains gas under pressure; may explode if heated. H304: May be fatal if swallowed and enters airways. EUH066: Repeated exposure may cause skin dryness or cracking.
Precautionary Statement(s)	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211: Do not spray on an open flame or other ignition source. P251: Do not pierce or burn, even after use. P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE/doctor. P331: Do NOT induce vomiting. P405: Store locked up. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. P501: Dispose of contents in accordance with local, state or national legislation.
Acronyms	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 ATE : Acute Toxicity Estimate CAS : Chemical Abstracts Service DNEL : Derived No Effect Level EC : European Community EINECS : European Inventory of Existing Commercial Chemical Substances IATA : International Air Transport Association IBC : Intermediate Bulk Container ICAO : International Civil Aviation Organization IMDG : International Maritime Dangerous Goods LTEL : Long term exposure limit PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals RID : Regulations concerning the International Carriage of Dangerous Goods by Rail STEL : Short term exposure limit STOT : Specific Target Organ Toxicity UN : United Nations vPvB : very Persistent and very Bioaccumulative
Key literature references and sources for data used to compile the SDS	GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567
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