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

1.1 **Product identifier**
- **Product Name**: NEOCOL B – AEROSOL.
- **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**
- **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**

- Aerosol 3; Pressurised container: May burst if heated.
- Asp. Tox. 1; May be fatal if swallowed and enters airways.
- Repeated exposure may cause skin dryness or cracking.

- Xn; Harmful: may cause lung damage if swallowed.
- Repeated exposure may cause skin dryness or cracking.

2.2 **Label elements**
- **Product Name**: NEOCOL B – AEROSOL.
- **Hazard Pictogram**: GHS08
- **Signal word(s)**: Danger.
- **Hazard statement(s)**: 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.
NEOCOL B - AEROSOL

Precautionary statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251: Do not pierce or burn, even after use.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331: Do NOT induce vomiting.
P405: Store locked up.
P410+P412: Protect from sunlight. Do no expose to temperatures exceeding 50°C/122°F.

2.3 Other hazards

None.

2.4 Additional Information

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

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Mixtures

EC Classification No. 1272/2008

<table>
<thead>
<tr>
<th>Hazardous ingredient(s)</th>
<th>%W/W</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>REACH Registration No.</th>
<th>Hazard pictogram(s) and Hazard statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerosene – unspecified – distillates (petroleum), hydrotreated light</td>
<td>&gt;90</td>
<td>64742-47-8</td>
<td>265-149-8</td>
<td>01-2119453414-43-0001</td>
<td>GHS08, Asp. Tox. 1; H304, EUH066</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>1-10</td>
<td>124-38-9</td>
<td>204-696-9</td>
<td>None assigned</td>
<td>GHS04, Press. Gas; H280</td>
</tr>
<tr>
<td>Triiron tetraoxide</td>
<td>&lt;1</td>
<td>1317-61-9</td>
<td>215-277-5</td>
<td>01-2119457646-28-0000</td>
<td>None</td>
</tr>
</tbody>
</table>

EC Classification No. 67/548/EEC

<table>
<thead>
<tr>
<th>Hazardous ingredient(s)</th>
<th>%W/W</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>REACH Registration No.</th>
<th>EC Classification and Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerosene – unspecified – distillates (petroleum), hydrotreated light</td>
<td>&gt;90</td>
<td>64742-47-8</td>
<td>265-149-8</td>
<td>01-2119453414-43-0001</td>
<td>Xn; R65, R66.</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>1-10</td>
<td>124-38-9</td>
<td>204-696-9</td>
<td>None assigned</td>
<td>None</td>
</tr>
<tr>
<td>Triiron tetraoxide</td>
<td>&lt;1</td>
<td>1317-61-9</td>
<td>215-277-5</td>
<td>01-2119457646-28-0000</td>
<td>None</td>
</tr>
</tbody>
</table>

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. 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
IF SWALLOWED: Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed
Aspiration into the lungs may cause chemical pneumonitis, which can be fatal. Repeated exposure may cause skin dryness or cracking.

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

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 fire-fighters
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.

6. 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. Avoid inhalation of high concentrations of vapours. 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
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 and 13.
7. **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 pierce or burn, even after use. Provide adequate ventilation. Avoid inhalation of high concentrations of vapours. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke during work. Wash hands thoroughly after handling.

7.2 **Conditions for safe storage, including any incompatibilities**
- **Storage Temperature**: Ambient. Do not expose to temperatures exceeding 50°C/122°F.
- **Storage Life**: Stable under normal conditions.
- **Incompatible materials**: Strong oxidising agents, Natural rubber, Polystyrene, Butyl rubber.

7.3 **Specific end use(s)**

8. **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 **Control parameters**

8.1.1 **Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>SUBSTANCE.</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>LTEL (8 hr TWA mg/m³)</th>
<th>STEL (ppm)</th>
<th>STEL (mg/m³)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerosene – unspecified – distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>150</td>
<td>1200</td>
<td>-</td>
<td>-</td>
<td>WEL (Reciprocal Calculation Method)</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>5000</td>
<td>9150</td>
<td>15000</td>
<td>27400</td>
<td>WEL</td>
</tr>
</tbody>
</table>

WEL: Workplace Exposure Limit (UK HSE EH40)

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 suitable eye/face protection.
- **Skin protection (Hand protection/ Other)**: Wear suitable protective clothing and gloves.
- **Respiratory protection**: No personal respiratory protective equipment normally required. Handling of larger amounts: In case of insufficient ventilation, 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.
- **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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Aerosol</td>
</tr>
<tr>
<td>Colour</td>
<td>Dark grey/Black (Shaken)</td>
</tr>
<tr>
<td>Odour</td>
<td>Paraffinic</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>235 - 270°C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt;100°C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non-flammable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>0.015 mm Hg @ 20°C</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.82</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Immiscible with water.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>3.2cSt @ 40°C</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Pressurised container: May burst if heated.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

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, Natural rubber, Polystyrene, Butyl rubber.

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

<table>
<thead>
<tr>
<th>Route</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>Low oral toxicity. Kerosene – unspecified – distillates (petroleum), hydrotreated light: LD50 (rat) &gt;5000mg/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Low acute toxicity. Kerosene – unspecified – distillates (petroleum), hydrotreated light: LC50 (rat) 4hour(s) &gt;5.28mg/l</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>Low acute toxicity. Kerosene – unspecified – distillates (petroleum), hydrotreated light: LD50 (rabbit) &gt;2000mg/kg</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Low acute toxicity.</td>
</tr>
</tbody>
</table>
NEOCOL B - AEROSOL

Irritation
Repeated exposure may cause skin dryness or cracking.

Corrosivity
Not classified.

Sensitisation
Not expected to be a skin or respiratory sensitisier.

Repeated dose toxicity
None anticipated.

Carcinogenicity
No evidence of carcinogenicity.

Mutagenicity
There is no evidence of mutagenic potential.

Toxicity for reproduction
None anticipated.

Aspiration hazard
Asp. Tox. 1; May be fatal if swallowed and enters airways.

Aspiration into the lungs may cause chemical pneumonitis, which can be fatal.

11.2 Other information
None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
Low toxicity to aquatic organisms.
Kerosene – unspecified – distillates (petroleum), hydrotreated light:
Fish: LC50 (96 hour) = 45mg/l
Aquatic invertebrates: EC50 (48 hour) = 4720mg/l

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.
Kerosene – unspecified – distillates (petroleum), hydrotreated light: BCF = 130-159.

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.

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
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. 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

14.1 UN number
UN 1950

14.2 Proper Shipping Name
AEROSOLS, non-flammable

14.3 Transport hazard class(es)
2

14.4 Packing Group
None.

14.5 Environmental hazards
None.

14.6 Special precautions for user
None.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

14.8 Additional Information

14.8.1 ADR Classification Code
5A

14.8.2 Hazard label(s)
2.2
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
Community Rolling Action Plan (CoRAP);
Draft 20/03/2012
All chemicals are not listed.

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
STOT Specific Target Organ Toxicity
DNEL Derived No Effect Level
PNEL Predicted No Effect Concentration
PBT PBT: Persistent, Bioaccumulative and Toxic
vPvB vPvB: very Persistent and very Bioaccumulative
BCF Bioconcentration factor
Aerosol 3 Aerosol Category 3
Asp. Tox. 1 Aspiration hazard Category 1
Press. Gas Gases under pressure: Compressed gas
Xn Harmful

Risk Phrases and Safety Phrases
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.

Hazard statement(s)
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.
Hazard pictogram(s) and Hazard Symbol
GHS04  Xn
GHS08

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Annex to the extended Safety Data Sheet (eSDS)
No information available.