NEOASTRA DGC – HYDROCARBON BASED DAYLIGHT FLUORESCENT INK CONCENTRATE

# 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 | NEOASTRA DGC – HYDROCARBON BASED DAYLIGHT FLUORESCENT INK CONCENTRATE |
| 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 a suitable hydrocarbon carrier. |
| Uses advised against | None known. |

**1.3 Details of the supplier of the Safety Data Sheet**

| | |
|---|---|
| Company Identification | Johnson and Allen Ltd.<br>Neocol Works<br>Smithfield<br>Sheffield<br>S3 7AR. |
| Telephone | 0114 2738066 |
| Fax | 0114 2729842 |
| E-mail | 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)** — Asp. Tox. 1; May be fatal if swallowed and enters airways. Repeated exposure may cause skin dryness or cracking.

**2.1.2 Directive 67/548/EEC & Directive 1999/45/EC** — Xn; Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking.

**2.2 Label elements**

**2.2.1 Label elements**

| | |
|---|---|
| | According to Regulation (EC) No. 1272/2008 (CLP) |
| Product Name | NEOASTRA DGC – HYDROCARBON BASED DAYLIGHT FLUORESCENT INK CONCENTRATE |
| Hazard Pictogram |  <br>GHS08 |
| Signal word(s) | Danger. |
| Hazard statement(s) | H304: May be fatal if swallowed and enters airways.<br>EUH066: Repeated exposure may cause skin dryness or cracking. |

| | | |
|---|---|---|
| | Precautionary statement(s) | P301 + P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.<br>P331: Do NOT induce vomiting.<br>P405: Store locked up.<br>P501: Dispose of contents/container to: Licensed recycler. |
| **2.2.2** | **Label elements** | According to Directive 67/548/EEC & Directive 1999/45/EC |
| | Product Name | NEOASTRA DGC – HYDROCARBON BASED DAYLIGHT FLUORESCENT INK CONCENTRATE |
| | Hazard Symbol |  <br>Xn |
| | Risk Phrases | R65: Harmful: may cause lung damage if swallowed.<br>R66: Repeated exposure may cause skin dryness or cracking. |
| | Safety Phrases | S2, S23, S24, S62 |
| **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

**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) |
|---|---|---|---|---|---|
| Distillates (petroleum), hydrotreated light; Kerosine — unspecified | >90 | 64742-47-8 | 265-149-8 | 01-2119453414-43-0001 | GHS08, Asp. Tox. 1; H304, EUH066 |

EC Classification No. 67/548/EEC

| Hazardous ingredient(s) | %W/W | CAS No. | EC No. | REACH Registration No. | EC Classification and Risk Phrases |
|---|---|---|---|---|---|
| Distillates (petroleum), hydrotreated light; Kerosine — unspecified | >90 | 64742-47-8 | 265-149-8 | 01-2119453414-43-0001 | Xn; R65, R66 |

**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 CENTRE or doctor/physician. |
| **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

| | | |
|---|---|---|
| **5.1** | **Extinguishing Media** | |
| | Suitable Extinguishing Media | Extinguish with carbon dioxide, dry chemical, foam or waterspray. |
| | Unsuitable Extinguishing Media | None known. |
| **5.2** | **Special hazards arising from the substance or mixture** | Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide. |
| **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. |

## 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|---|
| **6.1** | **Personal precautions, protective equipment and emergency procedures** | Ensure adequate ventilation. Avoid inhalation of high concentrations of vapours. Wear suitable protective clothing, gloves and eye/face protection. |
| **6.2** | **Environmental precautions** | Do not allow to enter drains, sewers or watercourses. |
| **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. |
| **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 inhalation of high concentrations of vapours. Avoid prolonged skin contact. Wear suitable protective clothing, gloves and eye/face protection. Wash thoroughly with soap and water after handling. Do not eat, drink or smoke during work.

**7.2 Conditions for safe storage, including any incompatibilities**

Store locked up.

| | |
|---|---|
| Storage Temperature | Ambient. Keep at temperature not exceeding (°C): 50°C. |
| Storage Life | Stable under normal conditions. Recommended: 3 Year(s). |
| Incompatible materials | Strong oxidising agents, Natural rubber, Polystyrene, Butyl rubber. |

**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 a suitable hydrocarbon carrier.

## 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/m³) | STEL (ppm) | STEL (mg/m³) | Note |
|---|---|---|---|---|---|---|
| Distillates (petroleum), hydrotreated light; Kerosine — unspecified | 64742-47-8 | 150 | 1200 | - | - | WEL (Reciprocal Calculation Method) |

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 protective eye glasses for protection against liquid splashes.

Skin protection (Hand protection/ Other)

Wear suitable gloves if prolonged skin contact is likely. Impervious gloves (EN 374).

Respiratory protection

Not normally required.

Handling of larger amounts: 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 allow to enter drains, sewers or watercourses. |

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance | Liquid. |
| Colour | Green (Shaken). |
| Odour | Paraffinic. |
| Odour Threshold (ppm) | Not available. |
| pH (Value) | Not available. |
| Melting Point (°C) | Not available. |
| Boiling Point (°C) | 198°C |
| Flash Point (°C) | >70°C |
| Evaporation rate | Not applicable. |
| Flammability | Non-flammable. |
| Explosive limit ranges | 0.6 – 7Vol-% |
| Vapour Pressure (mm Hg) | Not available. |
| Vapour Density (Air=1) | Not available. |
| Bulk Density (g/ml) @ 15°C | ~0.79 |
| Solubility (Water) | Immiscible. |
| Solubility (Other) | Not available. |
| Partition Coefficient (n-Octanol/water) | Not available. |
| Auto Ignition Temperature (°C) | >200°C |
| Decomposition Temperature (°C) | Not available. |
| Kinematic Viscosity @ 40°C | <3cSt |
| 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, Natural rubber, Butyl rubber, Polystyrene. |
| **10.6** | **Hazardous Decomposition Product(s)** | Carbon monoxide, Carbon dioxide. |

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects**

**11.1.1 Mixtures**

**Acute toxicity**

| | |
|---|---|
| Ingestion | Low oral toxicity.<br>Distillates (petroleum), hydrotreated light; Kerosine — unspecified: LD50 (rat) : >15000mg/kg |
| Inhalation | Low acute toxicity.<br>Distillates (petroleum), hydrotreated light; Kerosine — unspecified: LC50 (rat) 4hour(s) : >4951mg/m³ |

| | | |
|---|---|---|
| | Skin Contact | Low acute toxicity.<br>Distillates (petroleum), hydrotreated light; Kerosine — unspecified: LD50 (rabbit) : >2000mg/kg |
| | Eye Contact | Low acute toxicity. |
| | **Irritation** | Repeated exposure may cause skin dryness or cracking. |
| | **Corrosivity** | Not classified. |
| | **Sensitisation** | Not expected to be a skin or respiratory sensitiser. |
| | **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. |
| **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.<br>Distillates (petroleum), hydrotreated light; Kerosine — unspecified: 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** | Dispose of contents/container to: Licensed recycler.<br>Refer to manufacturer for information on recovery/recycling.<br>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 |
| Asp. Tox. 1 | Aspiration hazard Category 1 |
| Xn | Harmful |

**Risk Phrases and Safety Phrases**

| | |
|---|---|
| R65 | Flammable. |
| R66 | Repeated exposure may cause skin dryness or cracking. |
| S2 | Keep out of the reach of children. |
| S23 | Do not breathe vapour. |
| S24 | Avoid contact with skin. |
| S62 | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |

**Hazard statement(s)**

| | |
|---|---|
| H304 | May be fatal if swallowed and enters airways. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

**Hazard pictogram(s) and Hazard Symbol**

GHS08

Xn

**Disclaimers**

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**Annex to the extended Safety Data Sheet (eSDS)**

No information available.