

Safety Data Sheet

Whiteboard ink

Version:1.1**Creation Date:2022/10/25****Revision Date:2022/10/25****Color:Coloured****Country of Destination:EU*****Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)**

SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

| | |
|-------------------------|----------------|
| <i>Product Name</i> | Whiteboard ink |
| <i>Synonyms</i> | — |
| <i>CAS NO.</i> | — |
| <i>EC NO.</i> | — |
| <i>Chemical Formula</i> | — |

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

| | |
|---------------------------------|----------|
| <i>Relevant identified uses</i> | To write |
| <i>Uses advised against</i> | — |

1.3. Details of the supplier of the safety data sheet**Details of the supplier**

| | |
|----------------|---|
| Company | CLEVERPATCH PTY LTD |
| ABN | 48 130 866 885 |
| Online | www.cleverpatch.com.au |
| Email | info@cleverpatch.com.au |
| Phone | 1300 836 522 |
| Fax | 1300 244 139 |
| Address | 9 Balbu Close, Beresfield, NSW 2322 Australia |
| Mail | PO Box 7, Hunter Region Mail Centre, NSW 2310 Australia |

1.4. Emergency telephone number

| | |
|------------------|---------------------------------------|
| Australia | 13 11 26 (Poisons Information Centre) |
|------------------|---------------------------------------|

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

| | |
|---|---|
| <i>Classification according to Regulation (EC) No 1272/2008</i> |  GHS02 <i>H225 Flammable liquid and vapour; Category 2</i> |
|---|---|

2.2 Label elements

| | |
|--|---|
| <i>Labelling according to Regulation (EC) No 1272/2008</i> | <i>The product is classified and labelled according to the CLP regulation</i> |
|--|---|

| | |
|---|---|
| Hazard pictogram(s) |  GHS02 |
| Signal word | Danger! |
| Hazard-determining components of labelling | <i>Not Applicable</i> |
| Hazard statements | <i>H225 Highly flammable liquid and vapour.</i> |
| 2.2.1 Supplementary statement(s) | |
| EUH210 | <i>Safety data sheet available on request.</i> |
| 2.3 Precautionary statements | |
| ➤ Precautionary statement(s) Prevention | |
| P210 | <i>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</i> |
| P233 | <i>Keep container tightly closed.</i> |
| P240 | <i>Ground and bond container and receiving equipment.</i> |
| P241 | <i>Use explosion-proof [electrical/ventilating/lighting] equipment.</i> |
| P242 | <i>Use only non-sparking tools</i> |
| P243 | <i>Take precautionary measures against static discharge.</i> |
| P261 | <i>Avoid breathing dust/fume/gas/mist/vapours/spray.</i> |
| P271 | <i>Use only outdoors or in a well-ventilated area.</i> |
| P280 | <i>Wear protective gloves/protective clothing/eye protection/face protection.</i> |
| ➤ Precautionary statement(s) Response | |
| P303+P340 | <i>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</i> |
| P303+P361+P353 | <i>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].</i> |
| P370+P378 | <i>In case of fire: Use ... to extinguish.</i> |
| ➤ Precautionary statement(s) Storage | |
| P405 | <i>Store locked up.</i> |
| P403+P235 | <i>Store in a well-ventilated place. Keep cool.</i> |
| ➤ Precautionary statement(s) Disposal | |
| P501 | <i>Dispose of contents/container in accordance with local/regional/national/international regulations.</i> |
| 2.4 Other hazard | |
| C.I. Pigment Blue 15 | <i>Listed in the Europe Regulation (EU) 2018/1881 Specific Requirements for Endocrine Disruptors.</i> |

SECTION 3 Composition/information on ingredients

3.1 Substance

See 'Composition on ingredients' in Section 3.2

3.2 Mixtures

➤ *Description: mixture of substances listed.*

| <i>1.CAS No 2. EC/est No 3. Index No 4. REACH No</i> | <i>%[weight]</i> | <i>Name</i> | <i>Classification according to regulation (EC)No 1272/2008 [CLP] and amendments</i> | <i>Nanoform Particle Characteristics</i> | <i>SCL/M-Factor/ATE</i> |
|---|------------------|----------------------------|---|--|-------------------------|
| <i>Common ingredients on each color</i> | | | | | |
| <i>1.64-17-5 2. 200-578-6 3.603-002-00-5 4. Not Available</i> | <i>30.0-40.0</i> | <i>Ethanol</i> | <i>Flam Liquid Category 2; H225</i> | <i>Not Applicable</i> | <i>Not Applicable</i> |
| <i>1.25322-68-3 2.500-038-2 3. Not Available 4. Not Available</i> | <i>10.0-15.0</i> | <i>Polyethylene glycol</i> | <i>Not Classified</i> | <i>Not Applicable</i> | <i>Not Applicable</i> |

| | | | | | |
|---|----------|--------------------------------|--|----------------|----------------|
| 1.27-55-6 2.208-558-8 3. Not Available 4.01-2119-4568-09-23-0179 | 5.0-10.0 | Propane-1,2-diol | Not Classified | Not Applicable | Not Applicable |
| 1.25168-73-4 2.246-705-9 3. Not Available 4. Not Available | 15.0 | Sucrose stearate | Not Classified | Not Applicable | Not Applicable |
| 1.63148-65-2 2.613-158-6 3. Not Available 4. Not Available | 5.0 | Poly(vinyl butyral) | Skin irritation Category 2; H315 Eye irritation Category 2A; H319 STOT SE Category 3; H335 | Not Applicable | Not Applicable |
| 1.67-63-0 2.208-661-7 3. Not Available 4. Not Available | 0-15.0 | Isopropanol | Flam Liquid Category 2; H225 Eye irritation Category 2A; H319 STOT SE Category 3; H336 | Not Applicable | Not Applicable |
| 1.9084-96-0 2.388-815-7 3. Not Available 4. Not Available | 15.0 | Polyethylene glycol monooleate | Not Classified | Not Applicable | Not Applicable |
| <i>Additional ingredients on each color</i> | | | | | |
| <i>Orange</i> | | | | | |
| 1.988-26-7 2.213-561-3 3. Not Available 4. Not Available | 2.0 | C.I.Pigment Red 122 | Not Classified | Not Applicable | Not Applicable |
| 1.5598-18-1 2.226-999-5 3. Not Available 4. Not Available | 3.0 | C.I. Pigment Yellow 110 | Not Classified | Not Applicable | Not Applicable |
| <i>Pink</i> | | | | | |
| 1.81-77-6 2.201-375-5 3. Not Available 4. Not Available | 1.0 | C.I. Pigment Blue 60 | Not Classified | Not Applicable | Not Applicable |
| 1.84632-65-5 2.401-548-3 3. Not Available 4. Not Available | 4.0 | Pigment Red 254 | Not Classified | Not Applicable | Not Applicable |
| <i>Yellow</i> | | | | | |
| 1.5598-18-1 2.226-999-5 3. Not Available 4. Not Available | 5.0 | C.I. Pigment Yellow 110 | Not Classified | Not Applicable | Not Applicable |
| <i>Sky Blue</i> | | | | | |
| 1.147-14-8 2.205-685-1 3. Not Available 4. Not Available | 5.0 | C.I. Pigment Blue 15 (a) | Not Classified | Not Applicable | Not Applicable |
| <i>Purple</i> | | | | | |
| 1.6358-38-1 2.226-767-9 3. Not Available 4. Not Available | 5.0 | Pigment Violet 23 | Not Classified | Not Applicable | Not Applicable |
| <i>Brown</i> | | | | | |
| 1.6992-11-6 2.238-258-1 3. Not Available 4. Not Available | 5.0 | Pigment Brown 25 | Not Classified | Not Applicable | Not Applicable |
| <i>Coffee</i> | | | | | |
| 1.6992-11-6 2.238-258-1 3. Not Available 4. Not Available | 5.0 | Pigment Brown 25 | Not Classified | Not Applicable | Not Applicable |
| 1.1333-86-4 2.215-689-9 3. Not Available 4. Not Available | 0.5 | Carbon black | Not Classified | Not Applicable | Not Applicable |
| <i>Grass green</i> | | | | | |
| 1.14382-13-7 2.238-238-4 3. Not Available 4. Not Available | 5.0 | C.I.Pigment Green 36 | Not Classified | Not Applicable | Not Applicable |
| <i>Rose red</i> | | | | | |
| 1.1047-16-1 2.213-879-2 3. Not Available 4. Not Available | 5.0 | C.I.Pigment Violet 19 | Not Classified | Not Applicable | Not Applicable |

Legend: (a) Substance identified as having endocrine disrupting properties

SECTION 4 First aid measures

4.1 Description of first aid measures

| | |
|-----------------------|--|
| General advice | Seek medical attention if necessary. Show this Safety Data Sheet (SDS) to the physician present. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable. |

| | |
|---------------------|--|
| Skin contact | <i>Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.</i> |
| Ingestion | <i>Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.</i> |
| Inhalation | <i>Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.</i> |

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3 Indication of any immediate medical attention and special treatment needed

| | |
|--|---|
| Treat symptomatically | <i>Periodic medical surveillance should be carried out on persons in occupations exposed to the manufacture or bulk handling of the product and this should include hepatic function tests and urinalysis examination. [ILO Encyclopaedia]</i> |
| For acute or short term repeated exposures to ethanol | |
| 1 | <i>Acute ingestion in non-tolerant patients usually responds to supportive care with special attention to prevention of aspiration, replacement of fluid and correction of nutritional deficiencies (magnesium, thiamine pyridoxine, Vitamins C and K).</i> |
| 2 | <i>Give 50% dextrose (50-100 ml) IV to obtunded patients following blood draw for glucose determination.</i> |
| 3 | <i>Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.</i> |
| 4 | <i>Comatose patients should be treated with initial attention to airway, breathing, circulation and drugs of immediate importance (glucose, thiamine).</i> |
| 5 | <i>Decontamination is probably unnecessary more than 1 hour after a single observed ingestion. Cathartics and charcoal may be given but are probably not effective in single ingestions.</i> |
| 6 | <i>Fructose administration is contra-indicated due to side effects.</i> |
| For acute or short term repeated exposures to isopropanol | |
| 1 | <i>Rapid onset respiratory depression and hypotension indicates serious ingestions that require careful cardiac and respiratory monitoring together with immediate intravenous access.</i> |
| 2 | <i>Rapid absorption precludes the usefulness of emesis or lavage 2 hours post-ingestion. Activated charcoal and cathartics are not clinically useful. Ipecac is most useful when given 30 mins. post-ingestion.</i> |
| 3 | <i>There are no antidotes. Management is supportive. Treat hypotension with fluids followed by vasopressors.</i> |
| 4 | <i>Watch closely, within the first few hours for respiratory depression; follow arterial blood gases and tidal volumes</i> |
| 5 | <i>Ice water lavage and serial haemoglobin levels are indicated for those patients with evidence of gastrointestinal bleeding.</i> |

SECTION 5 Firefighting measures

5.1 Extinguishing media

| | |
|---------------------------------------|---|
| Suitable extinguishing media | <i>CO₂ powder or water spray. Fight larger fires with water spray or alcohol resistant foam.</i> |
| Unsuitable extinguishing media | <i>Water with full jet.</i> |

5.2 Special hazards arising from the substrate or mixture

May form irritating fumes in the air under fire.

5.3 Advice for firefighters

| | |
|---|--|
| 1 | <i>As in any fire, wear self-contained breathing apparatus(MSHA/NIOSH approved or equivalent)and full protective gear.</i> |
| 2 | <i>Fight fire from a safe distance, with adequate cover.</i> |
| 3 | <i>Prevent fire extinguishing water from contaminating surface water or the ground water system.</i> |
| 4 | Hazardous Combustion Products: <i>During a fire, smoke may contain the original material in addition to combustion products of varying composition which maybe toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.</i> |

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| | |
|---|--|
| 1 | <i>Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.</i> |
| 2 | <i>Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.</i> |
| 3 | <i>Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.</i> |

| | |
|---|-----------------------------------|
| 4 | Avoid contact with skin and eyes. |
|---|-----------------------------------|

6.2 Environmental precautions

| | |
|---|--|
| 1 | Do not allow to enter sewers/ surface or ground water. |
| 2 | Discharge into the environment must be avoided. |

6.3 Methods and material for containment and cleaning up

| | |
|---|--|
| 1 | Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). |
| 2 | Dispose contaminated material as waste according to item 13. |
| 3 | Ensure adequate ventilation. |

6.4 Reference to other sections

| | |
|---|---|
| 1 | See section 7 for information on safe handling. |
| 2 | See section 8 for information on personal protection equipment. |
| 3 | See section 13 for disposal information. |

SECTION 7 Handling and storage

7.1 Precautions for handling

► Protective measure

| | |
|---|--|
| 1 | Ensure good ventilation/exhaustion at the workplace. |
| 2 | Keep receptacles tightly sealed. |
| 3 | Keep away from heat and direct sunlight. |
| 4 | Prevent formation of aerosols. |
| 5 | Avoid contact with skin and eyes. |

► Information about fire - and explosion protection

| | |
|---|--|
| 1 | Keep ignition sources away - Do not smoke. |
| 2 | Protect against electrostatic charges. |

7.2 Conditions for safe storage, including any incompatibilities

| | |
|---|---|
| 1 | Keep containers tightly closed. |
| 2 | Keep containers in a dry, cool and well-ventilated place. |
| 3 | Keep away from heat/sparks/open flames/hot surfaces. |
| 4 | Store away from incompatible materials and food stuff containers. |

7.3 Specific end use(s)

In addition to use mentioned in the first parts, unforeseen other specific end uses.

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

| Ingredient | DNELs Exposure Pattern Worker | PNECs Compartment |
|------------------|---|--|
| Propane-1,2-diol | Inhalation 10 mg/m ³ (Local, Chronic) Inhalation 168 mg/m ³ (Systemic, Chronic) Inhalation 10 mg/m ³ (Local, Chronic)* Inhalation 50 mg/m ³ (Systemic, Chronic)* | 260 mg/L (Water (Fresh)) 183 mg/L (Water - Intermittent release) 26 mg/L (Water (Marine)) 572 mg/kg sediment dw (Sediment (Fresh Water)) 57.2 mg/kg sediment dw (Sediment (Marine)) 50 mg/kg soil dw (Soil) 20000 mg/L (STP) |
| Carbon black | Inhalation 1 mg/m ³ (Systemic, Chronic) Inhalation 0.06 mg/m ³ (Systemic, Chronic) * | 50 mg/L (Water (Fresh)) |

| | | |
|------------------------------|---|---|
| <i>Ethanol</i> | <i>Inhalation 380 mg/m³ (Systemic, Chronic) Inhalation 1900 mg/m³ (Local, Acute) Dermal 343 mg/kg bw/day (Systemic, Chronic) Inhalation 114 mg/m³ (Systemic, Chronic)* Inhalation 950 mg/m³ (Local, Acute)* Dermal 206 mg/kg bw/day (Systemic, Chronic)* Oral 87 mg/kg bw/day (Systemic, Chronic)*</i> | <i>0.96 mg/L (Water (Fresh)) 2.75 mg/L (Water - Intermittent release) 0.79 mg/L (Water (Marine)) 3.6 mg/kg sediment dw (Sediment (Fresh Water)) 0.63 mg/kg soil dw (Soil) 580 mg/L (STP) 380 - 720 mg/kg food (Secondary poisoning)</i> |
| <i>Polyethylene glycol</i> | <i>Inhalation 40.2 mg/m³ (Systemic, Chronic) Dermal 112 mg/kg bw/day (Systemic, Chronic) Inhalation 7.14 mg/m³ (Systemic, Chronic)* Dermal 40 mg/kg bw/day (Systemic, Chronic)* Oral 40 mg/kg bw/day (Systemic, Chronic)*</i> | <i>273 mg/L (Water (Fresh)) 1 mg/L (Water - Intermittent release) 27.3 mg/L (Water (Marine)) 0.01 mg/L (Marinewater-Intermittent release) 1030 mg/kg sediment dw (Sediment (Fresh Water)) 103 mg/kg sediment dw (Sediment (Marine)) 46.4 mg/kg soil dw (Soil)</i> |
| <i>Isopropanol</i> | <i>Inhalation 500 mg/m³ (Systemic, Chronic) Inhalation 1000 mg/m³ (Systemic, Acute) Dermal 888 mg/kg bw/day (Systemic, Chronic) Inhalation 89 mg/m³ (Systemic, Chronic)* Inhalation 178 mg/m³ (Systemic, Acute)* Dermal 319 mg/kg bw/day (Systemic, Chronic)* Oral 26 mg/kg bw/day (Systemic, Chronic)* Oral 51 mg/kg bw/day (Systemic, Acute)*</i> | <i>Not data available</i> |
| <i>C.I.Pigment Red 122</i> | <i>Inhalation 147 mg/m³ (Systemic, Chronic) Inhalation 3 mg/m³ (Local, Chronic) Dermal 42 mg/kg bw/day (Systemic, Chronic) Dermal 25 mg/kg bw/day (Systemic, Chronic)* Oral 25 mg/kg bw/day (Systemic, Chronic)*</i> | <i>Not data available</i> |
| <i>C.I. Pigment Blue 60</i> | <i>Inhalation 1.25 mg/m³ (Local, Chronic) Inhalation 1.25 mg/m³ (Local, Chronic)*</i> | <i>Not data available</i> |
| <i>Pigment Red 254</i> | <i>Inhalation 0.768 mg/m³ (Systemic, Chronic) Inhalation 0.042 mg/m³ (Local, Chronic) Dermal 3.33 mg/kg bw/day (Systemic, Chronic) Inhalation 0.14 mg/m³ (Systemic, Chronic)* Inhalation 0.0075 mg/m³ (Local, Chronic)* Dermal 1.66 mg/kg bw/day (Systemic, Chronic)* Dermal 0.0075 mg/cm² (Local, Chronic)* Oral 1.66 mg/kg bw/day (Systemic, Chronic)*</i> | <i>0.499-10 mg/L (Water (Fresh)) 0.499-10 mg/L (Water-Intermittent release) 0.499-10 mg/L (Water (Marine)) 1 mg/L (STP) 377-688 mg/kg sediment dw (Sediment (Fresh Water)) 377-688 mg/kg sediment dw (Sediment (Marine)) 1mg/kg soil dw (Soil)</i> |
| <i>C.I. Pigment Blue 15</i> | <i>Inhalation 10 mg/m³ (Local, Chronic)</i> | <i>Not data available</i> |
| <i>C.I.Pigment Violet 19</i> | <i>Inhalation 3 mg/m³ (Systemic, Chronic) Inhalation 3 mg/m³ (Local, Chronic)</i> | <i>Not data available</i> |

* Values for General Population

8.1.1 Occupational Exposure Limits (OEL)➤ *Ingredient data*

| <i>Ingredient</i> | <i>Country</i> | <i>Limit value - Eight hours</i> | <i>Limit value - Short term</i> |
|---|----------------------|-------------------------------------|--|
| <i>Propane-1,2-diol (particulates)</i> | <i>Ireland</i> | <i>10 mg/m³</i> | <i>Not data available</i> |
| | <i>Latvia</i> | <i>7 mg/m³</i> | <i>Not data available</i> |
| | <i>Poland</i> | <i>100 mg/m³</i> | <i>Not data available</i> |
| | <i>WELs(UK)</i> | <i>10 mg/m³</i> | <i>Not data available</i> |
| <i>Propane-1,2-diol (total vapour and particulates)</i> | <i>Ireland</i> | <i>150ppm 474 mg/m³</i> | <i>Not data available</i> |
| | <i>Norway</i> | <i>25ppm 79 mg/m³</i> | <i>Not data available</i> |
| | <i>WELs(UK)</i> | <i>150ppm 474 mg/m³</i> | <i>Not data available</i> |
| <i>Ethanol</i> | <i>Belgium</i> | <i>1000ppm 1907mg/m³</i> | <i>Not data available</i> |
| | <i>Austria</i> | <i>1000ppm 1900mg/m³</i> | <i>2000ppm 3800mg/m³</i> |
| | <i>Denmark</i> | <i>1000ppm 1900mg/m³</i> | <i>2000ppm 3800mg/m³</i> |
| | <i>Finland</i> | <i>1000ppm 1900mg/m³</i> | <i>1300ppm 2500mg/m³ RI</i> |
| | <i>MAK(Germany)</i> | <i>0.3R mg/m³</i> | <i>Not data available</i> |
| | <i>VLEP (France)</i> | <i>1000ppm 1900mg/m³</i> | <i>5000ppm 9500mg/m³</i> |
| | <i>AGS(Germany)</i> | <i>200ppm 380mg/m³</i> | <i>800ppm 1520mg/m³ RI</i> |
| | <i>DFG(Germany)</i> | <i>200ppm 380mg/m³</i> | <i>800ppm 1520mg/m³ RI</i> |
| | <i>Hungary</i> | <i>1900mg/m³</i> | <i>3800mg/m³ RI</i> |
| | <i>Ireland</i> | <i>Not data available</i> | <i>1000ppm (15 minutes reference period)</i> |

| | | | |
|-----------------------------|------------------------|--|--|
| Carbon black | <i>Latvia</i> | 1000 mg/m ³ | Not data available |
| | <i>Norway</i> | 500 ppm 950 mg/m ³ | Not data available |
| | <i>Poland</i> | 1900 mg/m ³ | Not data available |
| | <i>Romania</i> | 1000 ppm 1900 mg/m ³ | 5000 ppm 9500 mg/m ³ ^{EU} |
| | <i>Spain</i> | Not data available | 1000 ppm 1910 mg/m ³ |
| | <i>Sweden</i> | 500 ppm 1000 mg/m ³ | 1000 ppm 1910 mg/m ³ ^{EU} |
| | <i>Switzerland</i> | 500 ppm 960 mg/m ³ | 1000 ppm 1920 mg/m ³ |
| | <i>The Netherlands</i> | 260 mg/m ³ (Skin) | 1900 mg/m ³ (Skin) ^{EU} |
| | <i>WELo(UK)</i> | 1000 ppm 1920 mg/m ³ | Not data available |
| | <i>VLEP (France)</i> | 3.5 mg/m ³ | Not data available |
| Isopropanol | <i>WELo(UK)</i> | 3.5 mg/m ³ | 7 mg/m ³ |
| | <i>Belgium</i> | 3 mg/m ³ | 7 mg/m ³ |
| | <i>Finland</i> | 3.5 mg/m ³ | 7 mg/m ³ ^{EU} |
| | <i>Hungary</i> | 3 mg/m ³ Inhalable fraction | Not data available |
| | <i>Ireland</i> | 3 mg/m ³ Inhalable fraction | Not data available |
| | <i>Norway</i> | 3.5 mg/m ³ | Not data available |
| | <i>Poland</i> | 4 mg/m ³ Inhalable fraction | Not data available |
| | <i>Spain</i> | 3.5 mg/m ³ | Not data available |
| | <i>Sweden</i> | 3 mg/m ³ | Not data available |
| | <i>Austria</i> | 200 ppm 500 mg/m ³ | 800 ppm 2000 mg/m ³ |
| Polyethylene glycol | <i>Belgium</i> | 200 ppm 500 mg/m ³ | 400 ppm 1000 mg/m ³ ^{EU} |
| | <i>Denmark</i> | 200 ppm 490 mg/m ³ | 400 ppm 980 mg/m ³ |
| | <i>Finland</i> | 200 ppm 500 mg/m ³ | 250 ppm 620 mg/m ³ ^{EU} |
| | <i>VLEP (France)</i> | Not data available | 400 ppm 980 mg/m ³ |
| | <i>AGS(Germany)</i> | 200 ppm 500 mg/m ³ | 400 ppm 1000 mg/m ³ ^{EU} |
| | <i>DFG(Germany)</i> | 200 ppm 500 mg/m ³ | 400 ppm 1000 mg/m ³ ^{EU} |
| | <i>Hungary</i> | 500 mg/m ³ (Skin) ^{EU} | 1000 mg/m ³ (Skin) ^{EU} |
| | <i>Ireland</i> | 200 ppm | 400 ppm (15 minutes reference period) |
| | <i>Latvia</i> | 350 mg/m ³ | 600 mg/m ³ ^{EU} |
| | <i>Norway</i> | 100 ppm 245 mg/m ³ | Not data available |
| C.I. Pigment Blue 15 | <i>Poland</i> | 900 mg/m ³ | 1200 mg/m ³ |
| | <i>Romania</i> | 81 ppm 200 mg/m ³ | 203 ppm 500 mg/m ³ ^{EU} |
| | <i>Spain</i> | 200 ppm 500 mg/m ³ | 400 ppm 1000 mg/m ³ |
| | <i>Sweden</i> | 150 ppm 350 mg/m ³ | 250 ppm 600 mg/m ³ ^{EU} |
| | <i>Switzerland</i> | 200 ppm 500 mg/m ³ | 400 ppm 1000 mg/m ³ |
| | <i>WELo(UK)</i> | 400 ppm 995 mg/m ³ | 500 ppm 1250 mg/m ³ |
| | <i>Austria</i> | 1000 mg/m ³ inhalable aerosol | 4000 mg/m ³ inhalable aerosol |
| | <i>Denmark</i> | 1000 mg/m ³ | 2000 mg/m ³ |
| | <i>AGS(Germany)</i> | 200 mg/m ³ | 400 mg/m ³ ^{EU} |
| | <i>DFG(Germany)</i> | 200 mg/m ³ | 500 mg/m ³ ^{EU} (Average molecular weight 200 – 600) |
| | <i>Switzerland</i> | 500 mg/m ³ | Not data available |
| | <i>Latvia</i> | 5 mg/m ³ | Not data available |

Remarks: 1. 15 minutes average value 2. Inhalable fraction 3.Because formation of a mist is possible, exposure should be minimized for reasons of occupational safety and hygiene.

➤ **Emergency Limits**

| Ingredient | TEEL-1 | TEEL-2 | TEEL-3 |
|---------------------|---------------------|-----------------------|-----------------------|
| Propane-1,2-diol | 30mg/m ³ | 1300mg/m ³ | 7900mg/m ³ |
| Ethanol | 1800E*ppm | 3300E*ppm | 15000*ppm |
| Carbon black | 9mg/m ³ | 99mg/m ³ | 590mg/m ³ |
| Polyethylene glycol | 30mg/m ³ | 1300mg/m ³ | 7700mg/m ³ |
| Isopropanol | 400ppm | 2000*ppm | 12000*ppm |

➤ **Occupational Exposure Banding**

| Ingredient | Occupational Exposure Band Rating | Occupational Exposure Band Limit |
|------------------|--|----------------------------------|
| Pigment Brown 25 | E | ≤ 0.01 mg/m ³ |
| Notes: | Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health. | |

8.2 Engineering controls

| | |
|---|--|
| 1 | Ensure adequate ventilation, especially in confined areas. |
| 2 | Ensure that eyewash stations and safety showers are close to the workstation location. |
| 3 | Use explosion-proof electrical/ventilating/lighting/equipment. |
| 4 | Set up emergency exit and necessary risk-elimination area. |

8.3 Personal protection equipment

| General requirement | |
|---------------------------------|--|
| Eye protection | Tightly fitting safety goggles (approved by EN166(EU) or NIOSH(US)). |
| Hand protection | Wear protective gloves(such as butyl rubber, passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard). |
| Respiratory protection | If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges. |
| Skin and body protection | Wear fire/flame resistant/retardant clothing and antistatic boots. |
| Other protection | No special equipment needed when handling small quantities. |

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | | | | |
|---|------------------|---|---|----------------|
| Appearance | Coloured | Viscosity | Dynamic | Not determined |
| Physical state | Liquid | | Kinematic: | Not determined |
| Odour | Odourless | Vapour density (Air = 1) | | Not determined |
| Odour threshold | Not determined | Density/Relative density | | Not determined |
| pH (as supplied) | Not determined | Decomposition temperature | | Not determined |
| Melting point/freezing point(°C) | Not determined | Particle Size | | Not determined |
| Flash point(Closed cup, °C) | 20-22 °C | Vapour pressure (kPa) | | Not determined |
| Flammability | Flammable liquid | Relative vapor density | | Not determined |
| Evaporation rate | Not determined | Partition coefficient n-octanol/ water | | Not determined |
| Upper Explosive Limit (%) | Not determined | Auto-ignition temperature(°C) | | Not determined |
| Lower Explosive Limit (%) | Not determined | Explosive properties | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. | |
| Self-igniting | Not determined | Oxidising properties | Not determined | |
| Taste | Not determined | Surface Tension (dyn/cm or mNm) | Not determined | |

| | | | |
|---------------------------|----------------|-----------|----------------|
| Volatile Component (%vol) | Not determined | Gas group | Not determined |
| pH as a solution (1%) | Not determined | VOC g/L | Not determined |

9.2 Other information

No further relevant information available

SECTION 10 Stability and reactivity

10.1 Stability and reactivity

| | |
|------------------------------------|--|
| Reactivity | No further relevant information available. |
| Chemical stability | Stable under proper operation and storage conditions. |
| Possibility of hazardous reactions | No dangerous reactions known. |
| Conditions to avoid | Incompatible materials, heat, flame and spark. |
| Incompatible materials | See section 7.2. |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

SECTION 11 Toxicological information

11.1 Information on toxicological effects

| | |
|--------------|--|
| Ingestion | The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence. Swallowing 10 millilitres of isopropanol may cause serious injury; 100 millilitres may be fatal if not properly treated. The adult single lethal dose is approximately 250 millilitres. Isopropanol is twice as poisonous as ethanol, and the effects caused are similar, except that isopropanol does not cause an initial feeling of well-being. Swallowing may cause nausea, vomiting and diarrhea; vomiting and stomach inflammation is more prominent with isopropanol than with ethanol. |
| Inhaled | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Animal testing shows that the most common signs of inhalation overdose is inco-ordination and drowsiness. Aliphatic alcohols with more than 3 carbons cause headache, dizziness, drowsiness, muscle weakness and delirium, central depression, coma, seizures and behavioural changes. Secondary respiratory depression and failure, as well as low blood pressure and irregular heart rhythms, may follow. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. The odour of isopropanol may give some warning of exposure, but odour fatigue may occur. Inhalation of isopropanol may produce irritation of the nose and throat with sneezing, sore throat and runny nose. |
| Skin Contact | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. |
| Eye | Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn). Isopropanol vapour may cause mild eye irritation at 400 parts per million. Splashes may cause severe eye irritation, possible burns to the cornea and eye damage. Eye contact may cause tearing and blurring of vision. |
| Chronic | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. Prolonged exposure to ethanol may cause damage to the liver and cause scarring. It may also worsen damage caused by other agents. Long term, or repeated exposure of isopropanol may cause inco-ordination and tiredness. Repeated inhalation exposure to isopropanol may produce sleepiness, inco-ordination and liver degeneration. Animal data show developmental effects only at exposure levels that produce toxic effects in adult animals. Isopropanol does not cause genetic damage. |

| | | |
|---------------------|--|---|
| Whiteboard ink | TOXICITY | IRRITATION |
| | Not data available | Not data available |
| Propane-1,2-diol | TOXICITY Oral(rat)LD50:>22000 mg/kg ^{II} Inhalation(rat)LC50:>44.9 mg/L4h ^{II} Dermal(rabbit)LD50:>2000 mg/kg ^{II} | IRRITATION Eye: no adverse effect observed(not irritating)(Draize) Skin: no adverse effect observed(not irritating)(Draize) |
| Polyethylene glycol | TOXICITY Oral(rat) LD50:>2000 mg/kg ^{II} Dermal(rat) LD50: >2000 mg/kg ^{II} | IRRITATION Skin (rabbit): non-irritating(Draize) Eye (rabbit): non-irritating (Draize) |

| | TOXICITY | IRRITATION |
|--------------------------------|--|---|
| <i>Ethanol</i> | Inhalation(rat)LC50:>82.1-92.6 mg/L 6h ^{II} Inhalation(rat)LC50:>115.9-133.8 mg/L 4h ^{II} Inhalation(mouse) LC50:>60000 ppm 1h ^{II} Oral(mouse) LD50:>8300 mg/kg ^{II} | Skin(rabbit): non-irritating(Draize) Eye(rabbit): slight irritation(50% concentration)(Draize) |
| <i>Sucrose stearate</i> | Oral(mouse)LD50:>28915 mg/kg ^{II} Oral(rat)LD50:>22000 mg/kg ^{II} Oral(rabbit)LD50:>14000 mg/kg ^{II} Dermal(rat)LD50:>2000 mg/kg ^{II} | Not data available |
| <i>Isopropanol</i> | Oral(mouse)LD50:5840 mg/kg ^{II} Inhalation(rabbit)LC50:10000 ppm 6h ^{II} Dermal (rat) LD50: 16.4 mg/kg ^{II} | Skin: no adverse effect observed (not irritating)(Draize) Eye(rabbit): Causes serious eye irritation(Draize) |
| <i>C.I.Pigment Red 122</i> | Oral(rat)LD50:>2000 mg/kg ^{II} Inhalation(rat)LC50:>3.055 mg/L 4h ^{II} Dermal (rat) LD50:>3000 mg/kg ^{II} | Eye: no adverse effect observed (not irritating)(Draize) Skin: no adverse effect observed (not irritating)(Draize) |
| <i>C.I. Pigment Yellow 110</i> | Oral(rat)LD50:>2000 mg/kg ^{II} Dermal(rat)LD50:>3000 mg/kg ^{II} | Eye: no adverse effect observed (not irritating)(Draize) Skin: no adverse effect observed (not irritating)(Draize) |
| <i>C.I. Pigment Blue 60</i> | Oral(rat)LD50:>5000 mg/kg ^{II} Inhalation(rat)LC50:>3.055 mg/L 4h ^{II} Dermal(rat)LD50:>1050 mg/kg ^{II} | Eye: no adverse effect observed (not irritating)(Draize) Skin: no adverse effect observed (not irritating)(Draize) |
| <i>Pigment Red 254</i> | Oral(rat)LD50:>5000 mg/kg ^{II} Inhalation(rat)LC50:>2.25 mg/L 4h ^{II} Dermal(rat)LD50:>2000 mg/kg ^{II} | Eye: no adverse effect observed(not irritating)(Draize) Skin: no adverse effect observed (not irritating)(Draize) |
| <i>C.I. Pigment Blue 15</i> | Dermal(rat)LD50:>5000 mg/kg ^{II} Oral(rat) LD50:>6400 mg/kg ^{II} | Eye: no adverse effect observed (not irritating)(Draize) Skin: no adverse effect observed (not irritating)(Draize) |
| <i>C.I. Pigment Brown 25</i> | Dermal(rat) LD50:>2000 mg/kg ^{II} Oral(rat)LD50:>2000 mg/kg ^{II} | Eye: no adverse effect observed (not irritating)(Draize) Skin: no adverse effect observed (not irritating)(Draize) |
| <i>Carbon black</i> | Dermal(rabbit)LD50: >3000 mg/kg ^{II} Oral(rat)LD50:>8000 mg/kg ^{II} | Eye: no adverse effect observed (not irritating)(Draize) Skin: no adverse effect observed (not irritating)(Draize) |
| <i>C.I.Pigment Green 36</i> | TOXICITY | IRRIGATION |
| | Oral(mouse)LD50:>16000 mg/kg ^{II} | Eye: no adverse effect observed (not irritating)(Draize) Skin: no adverse effect observed (not irritating)(Draize) |
| <i>C.I.Pigment Violet 19</i> | TOXICITY | IRRIGATION |
| | Oral(rat)LD50:>10000 mg/kg ^{II} Inhalation(rat)LC0:>3.055 mg/L 4h ^{II} | Eye: no adverse effect observed (not irritating)(Draize) Skin: no adverse effect observed (not irritating)(Draize) |

Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS.

11.2 Carcinogenicity

| Component | Cas No. | IARC | Component | Cas No. | IARC |
|---------------------------------------|------------|------------|------------------------------|------------|------------|
| <i>Ethanol</i> | 64-17-5 | 1 | <i>C.I.Pigment Red 122</i> | 980-26-7 | Not Listed |
| <i>Polyethylene glycol</i> | 25322-68-3 | Not Listed | <i>Pigment Brown 25</i> | 6992-11-6 | Not Listed |
| <i>Propane-1,2-diol</i> | 57-55-6 | Not Listed | <i>C.I. Pigment Blue 15</i> | 147-14-8 | Not Listed |
| <i>Isopropanol</i> | 67-63-0 | 3 | <i>C.I.Pigment Green 36</i> | 14302-13-7 | Not Listed |
| <i>Sucrose stearate</i> | 25168-73-4 | Not Listed | <i>C.I. Pigment Blue 60</i> | 81-77-6 | Not Listed |
| <i>Poly(vinyl butyral)</i> | 63148-65-2 | Not Listed | <i>Pigment Red 254</i> | 84632-65-5 | Not Listed |
| <i>Polyethylene glycol monooleate</i> | 9004-96-0 | Not Listed | <i>C.I.Pigment Violet 19</i> | 1047-16-1 | Not Listed |
| <i>C.I. Pigment Yellow 110</i> | 5590-18-1 | Not Listed | <i>Carbon black</i> | 1333-86-4 | 2B |

| | | | | | |
|-------------------|-----------|------------|--|--|--|
| Pigment Violet 23 | 6358-30-1 | Not Listed | | | |
|-------------------|-----------|------------|--|--|--|

11.2.1 Endocrine Disruption Properties

The evidence linking adverse effects to endocrine disruptors is more compelling in the environment than it is in humans. Endocrine disruptors profoundly alter reproductive physiology of ecosystems and ultimately impact entire populations. Some endocrine-disrupting chemicals are slow to break-down in the environment.

That characteristic makes them potentially hazardous over long periods of time. Some well established adverse effects of endocrine disruptors in various wildlife species include: eggshell-thinning, displayed of characteristics of the opposite sex and impaired reproductive development. Other adverse changes in wildlife species that have been suggested, but not proven include: reproductive abnormalities, immune dysfunction and skeletal deformities.

11.3 Primary irritant effect

| | |
|-------------------------------|--|
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation | Based on available data, the classification criteria are not met. |
| Serious eye damage/irritation | Isopropanol and poly(vinyl butyral). The substance does not meet the criteria for classification and labelling for this endpoint (Category 2: causes serious eye irritation) in accordance with Annex VI of Regulation (EC) No. 1272/2008. |
| Skin sensitization | Based on available data, the classification criteria are not met. |
| Respiratory sensitization | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | Based on available data, the classification criteria are not met. |
| STOT-single exposure | Based on available data, the classification criteria are not met. |
| STOT-repeated exposure | Based on available data, the classification criteria are not met. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |

SECTION 12 Ecological information

12.1 Toxicity

| Whiteboard ink | Endpoint | Test Duration (hr) | Species | Value |
|---------------------|-------------------|--------------------|---------------------------------|-------------------|
| | No data available | No data available | No data available | No data available |
| Propane-1,2-diol | Endpoint | Test Duration (hr) | Species | Value |
| | NOEC | 168h | Aquatic invertebrates | 15320 mg/L |
| | LC50 | 96h | Fish | 40613 mg/L |
| | LC50 | 48h | Fish | 18340 mg/L |
| | EC50 | 96h | Aquatic algae and cyanobacteria | 19000 mg/L |
| | EC50 | 48h | Aquatic invertebrates | 18340 mg/L |
| Ethanol | Endpoint | Test Duration (hr) | Species | Value |
| | LC50 | 96h | Fish | 14.2-15.4 g/L |
| | NOEC | 120h | Fish | 230-1000 mg/L |
| | NOEC | 240h | Aquatic invertebrates | 2-9.6 mg/L |
| | EC50 | 240h | Aquatic invertebrates | 1806 mg/L |
| | EC50 | 216h | Aquatic invertebrates | 434 mg/L |
| | EC50 | 48h | Aquatic invertebrates | 10 g/L |
| | EC50 | 168h | Aquatic plants other than algae | 4.43-3.967 g/L |
| | NOEC | 72h | Aquatic plants other than algae | 11.5 mg/L |
| Polyethylene glycol | EC50 | 72h | Aquatic algae and cyanobacteria | 273 mg/L |
| | Endpoint | Test Duration (hr) | Species | Value |
| | LC50 | 96h | Fish | 100 mg/L |
| | NOEC | 672h | Fish | 13.672 g/L |

| | Endpoint | Test Duration (hr) | Species | Value |
|----------------------|----------|--------------------|---------------------------------|--------------|
| Carbon black | LC50 | 168h | Fish | 1.13g/L |
| | NOEC | 50h | Aquatic invertebrates | 17.475g/L |
| | EC50 | 192h | Aquatic algae and cyanobacteria | 1g/L |
| | EC50 | 96h | Aquatic algae and cyanobacteria | 100 mg/L |
| Isopropanol | Endpoint | Test Duration (hr) | Species | Value |
| | LC50 | 96h | Fish | >100 mg/L |
| | EC50 | 24h | Aquatic invertebrates | >3600 mg/L |
| | EC50 | 72h | Aquatic algae and cyanobacteria | >10000 mg/L |
| C.I. Pigment Blue 15 | Endpoint | Test Duration (hr) | Species | Value |
| | LC50 | 96h | Fish | 9.64-10 g/L |
| | NOEC | 672h | Fish | 1g/L |
| | EC50 | 24h | Aquatic invertebrates | 10g/L |
| C.I. Pigment Red 122 | Endpoint | Test Duration (hr) | Species | Value |
| | LC50 | 24h | Aquatic invertebrates | 500 mg/L |
| | NOEC | 504h | Aquatic invertebrates | 1 mg/L |
| | EC50 | 72h | Aquatic algae and cyanobacteria | 100 mg/L |
| Pigment Brown 25 | Endpoint | Test Duration (hr) | Species | Value |
| | LC50 | 96h | Fish | 100 mg/L |
| | NOEC | 672h | Fish | 100 mg/L |
| | EC50 | 48h | Aquatic invertebrates | 100 mg/L |
| | NOEC | 504h | Aquatic invertebrates | 25-1000 µg/L |
| | EC50 | 72h | Aquatic algae and cyanobacteria | 10-100 mg/L |

12.2 Persistence and degradability

| Component | Cas No. | Persistence (water/soil) |
|-------------------------|------------|--------------------------------|
| Ethanol | 64-17-5 | Readily biodegradable in water |
| Propane-1,2-diol | 57-55-6 | Readily biodegradable in water |
| Polyethylene glycol | 25322-68-3 | Readily biodegradable in water |
| Isopropanol | 67-63-0 | Readily biodegradable in water |
| C.I. Pigment Blue 15 | 147-14-8 | Not biodegradable |
| C.I. Pigment Yellow 110 | 5590-18-1 | Readily biodegradable in water |
| C.I. Pigment Red 122 | 980-26-7 | Not biodegradable |
| C.I. Pigment Green 36 | 14302-13-7 | Poorly biodegradable |
| C.I. Pigment Blue 60 | 81-77-6 | Not readily biodegradable |
| Pigment Red 254 | 84632-65-5 | Not inherently biodegradable |

| | | |
|------------------------------|-----------|------------------------------|
| <i>C.I.Pigment Violet 19</i> | 1047-16-1 | Not readily biodegradable |
| <i>Pigment Brown 25</i> | 6992-11-6 | Not inherently biodegradable |

12.3 Bioaccumulative potential

| Component | Cas No. | Bioaccumulative potential | Remarks |
|--------------------------------|------------|---------------------------------------|--|
| <i>Ethanol</i> | 64-17-5 | No potential for bioaccumulation | <i>Log Kow</i> =-0.35 |
| <i>Propane-1,2-diol</i> | 57-55-6 | No potential for bioaccumulation | <i>Log Kow</i> =-1.07 |
| <i>Isopropanol</i> | 67-63-0 | Potential for a low bioaccumulation | <i>Log Kow</i> =0.05 BCF=1.015 |
| <i>Polyethylene glycol</i> | 25322-68-3 | Potential for a low bioaccumulation | <i>Log Kow</i> =-0.698 BCF=3.162 |
| <i>C.I. Pigment Blue 15</i> | 147-14-8 | No potential for bioaccumulation | <i>Log Kow</i> =-1 |
| <i>C.I. Pigment Yellow 110</i> | 5590-18-1 | No bioaccumulation potential expected | <i>Log Kow</i> =5.2 BCF=1916 dimensionless |
| <i>C.I.Pigment Red 122</i> | 980-26-7 | Potential for a low bioaccumulation | <i>Log Kow</i> <3 |
| <i>C.I.Pigment Green 36</i> | 14302-13-7 | No potential for bioaccumulation | <i>Log Kow</i> =-0.4 |
| <i>C.I. Pigment Blue 60</i> | 81-77-6 | No bioaccumulation expected | <i>Log Kow</i> =1.78 |
| <i>Pigment Red 254</i> | 84632-65-5 | No potential for bioaccumulation | <i>Log Kow</i> =2.4-3 |
| <i>C.I.Pigment Violet 19</i> | 1047-16-1 | Potential for a low bioaccumulation | <i>Log Kow</i> <3 |
| <i>Pigment Brown 25</i> | 6992-11-6 | No potential for bioaccumulation | <i>Log Kow</i> =1.15 |

12.4 Mobility in soil

| Component | Cas No. | Soil Organic Carbon-Water Partitioning Coefficient (Koc) |
|--------------------------------|------------|--|
| <i>Ethanol</i> | 64-17-5 | <i>Koc</i> =1 |
| <i>Polyethylene glycol</i> | 25322-68-3 | <i>Koc</i> =1.857 |
| <i>Isopropanol</i> | 67-63-0 | <i>Koc</i> =3.478 |
| <i>Propane-1,2-diol</i> | 57-55-6 | <i>Koc</i> =2.9 |
| <i>C.I. Pigment Yellow 110</i> | 5590-18-1 | <i>Koc</i> =3.089 |
| <i>Pigment Red 254</i> | 84632-65-5 | <i>Koc</i> =341.5 |

12.5 Results of PBT and vPvB assessment

| | |
|-------------|---------------|
| <i>PBT</i> | Not Available |
| <i>vPvB</i> | Not Available |

12.6 Endocrine Disruption Properties

The evidence linking adverse effects to endocrine disruptors is more compelling in the environment than it is in humans.

Endocrine disruptors profoundly alter reproductive physiology of ecosystems and ultimately impact entire populations. Some endocrine-disrupting chemicals are slow to break-down in the environment.

That characteristic makes them potentially hazardous over long periods of time. Some well established adverse effects of endocrine disruptors in various wildlife species include; eggshell-thinning, displayed of characteristics of the opposite sex and impaired reproductive development. Other adverse changes in wildlife species that have been suggested, but not proven include; reproductive abnormalities, immune dysfunction and skeletal deformities.

12.7 Other adverse effects

No further relevant information available.

SECTION 13 Disposal considerations

13.1 Waste treatment methods

| | |
|-------------------------------------|---|
| Product / Packaging disposal | Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. 1. Do not allow wash water from cleaning or process equipment to enter drains. 2. It may be necessary to collect all wash water for treatment before disposal. 3. Recycle wherever possible 4. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. |
| Waste treatment options | Not Available |
| Sewage disposal options | Not Available |

SECTION 14 Transport information

14.1 UN-Number

| | |
|--------------------------------|-------------------------------------|
| ADR/RID/ADN, IMDG, IATA | UN1170(Ethanol) UN1219(Isopropanol) |
|--------------------------------|-------------------------------------|

14.2 UN proper shipping name

| | |
|--------------------------|---|
| ADR/RID/ADN, IMDG | Ethanol (ethyl alcohol) mixture Isopropanol mixture |
| IATA | Ethanol mixture Isopropanol mixture |

14.3 Transport hazard class(es)

| | |
|--------------------------------|---|
| ADR/RID/ADN, IMDG, IATA |  |
| Class | 3 Flammable liquids. |
| Label | 3 |

14.4 Packing group

| | |
|--------------------------------|----|
| ADR/RID/ADN, IMDG, IATA | II |
|--------------------------------|----|

14.5 Environmental hazards

Not Applicable

14.6 Special precautions for user

| | |
|---|-------------------|
| Warning | Flammable liquids |
| Hazard identification number (Kemler code) | 33 |
| EMS Number: | F-E,S-D |
| Stowage Category | A |

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

Not Applicable

14.8 Transport/Additional information

| | |
|------------------------------|---|
| UN "Model Regulation" | UN 1170 Ethanol (ethyl alcohol) mixture, 3, II UN1219 Isopropanol mixture, 3, II |
|------------------------------|---|

SECTION 15 Regulatory information

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

| | | | |
|---|--------------|-----------------------------------|----|
| MAK (German Maximum Workplace concentration) | | | |
| 64-17-5 | Ethanol | | 5 |
| 1333-86-4 | Carbon black | | 3B |
| Directive 2012/18/EU | | | |
| Named dangerous substances -ANNEX I | | None of the ingredients is listed | |
| Other regulations, limitations and prohibitive regulations | | | |

| | |
|--|---|
| <i>SVHC Candidate List of REACH Regulation Annex XIV Authorisation</i> | <i>None of the ingredients is listed</i> |
| <i>REACH Regulation Annex XVII Restriction</i> | <i>Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.</i> |
| <i>REACH Regulation Annex XIV Authorization List</i> | <i>None of the ingredients is listed</i> |

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.3 International chemical inventory

| <i>Component</i> | <i>EINECS</i> | <i>TSCA</i> | <i>DSL</i> | <i>IECSC</i> | <i>NZIoC</i> | <i>PICCS</i> | <i>KECI</i> | <i>AICS</i> |
|---------------------------------------|-------------------|-------------------|---------------|---------------|---------------|---------------|---------------|-------------------|
| <i>Propane-1,2-diol</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>Ethanol</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>Polyethylene glycol</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>Sucrose stearate</i> | <i>Listed</i> | <i>Not Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>Poly(vinyl butyral)</i> | <i>Not Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>Polyethylene glycol monooleate</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>Isopropanol</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>C.I. Pigment Yellow 110</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>Pigment Violet 23</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Not Listed</i> |
| <i>Pigment Brown 25</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>C.I. Pigment Blue 15</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>C.I. Pigment Green 36</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>C.I. Pigment Blue 60</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>Pigment Red 254</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>C.I. Pigment Violet 19</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>Carbon black</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |

[EINECS] European Inventory of Existing Commercial Chemical Substances

[TSCA] United States Toxic Substances Control Act Inventory

[DSL] Canadian Domestic Substances List

[IECSC] China Inventory of Existing Chemical Substances

[NZIoC] New Zealand Inventory of Chemicals

[PICCS] Philippines Inventory of Chemicals and Chemical Substances

[KECI] Existing and Evaluated Chemical Substances

[AICS] Australia Inventory of Chemical Substances

SECTION 16 Other information

16.1 Information on revision

| | |
|----------------------------|------------|
| <i>Creation Date</i> | 2022/10/25 |
| <i>Revision Date</i> | 2022/10/25 |
| <i>Reason for revision</i> | — |

16.2 Full text Risk and Hazard codes

| | |
|-------------|--|
| <i>H225</i> | <i>Highly flammable liquid and vapour.</i> |
| <i>H315</i> | <i>Causes skin irritation.</i> |
| <i>H319</i> | <i>Causes serious eye irritation.</i> |
| <i>H335</i> | <i>May cause respiratory irritation/inhalation).</i> |

H336

May cause drowsiness or dizziness.

16.3 Abbreviations and acronyms

SCL: Specific Concentration limits**ATE:** Acute Toxicity Estimates**Cas:** Chemical Abstracts Service**PC-TWA:** Permissible Concentration-Time Weighted Average**PC-STEL:** Permissible Concentration-Short Term Exposure Limit**IARC:** International Agency for Research on Cancer**STEL:** Short Term Exposure Limit**TEEL:** Temporary Emergency Exposure Limit**ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**IMDG:** International Maritime Code for Dangerous Goods**IATA:** International Air Transport Association**GHS:** Globally Harmonized System of Classification and Labelling of Chemicals**EINECS:** European Inventory of Existing Commercial Chemical Substances**NOEC:** No Observed Effect Concentration**NOAEL:** No Observed Adverse Effect Level**BCF:** BioConcentration Factor**ELINCS:** European List of Notified Chemical Substances**DNEL:** Derived No-Effect Level (REACH)**PNEC:** Predicted No-Effect Concentration (REACH)**LC50:** Lethal concentration, 50 percent**LD50:** Lethal dose, 50 percent**PBT:** Persistent, Bioaccumulative and Toxic**vPvB:** very Persistent and very Bioaccumulative

16.4 Further information

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

DISCLAIMER OF LIABILITY:

This Safety Data Sheet (SDS) was prepared according to REACH Regulation. The data included was derived from international authoritative data base and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

Safety Data Sheet

Whiteboard ink

Version: 1.1

Creation Date: 2022/10/24

Revision Date: 2022/10/24

Color: black/red/blue/green

Country of Destination: EU

*Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

| | |
|-------------------------|---------------------------------------|
| <i>Product Name</i> | Whiteboard ink (Black/Red/Blue/Green) |
| <i>Synonyms</i> | — |
| <i>CAS NO.</i> | — |
| <i>EC NO.</i> | — |
| <i>Chemical Formula</i> | — |

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

| | |
|---------------------------------|----------|
| <i>Relevant identified uses</i> | To write |
| <i>Uses advised against</i> | — |

1.3. Details of the supplier of the safety data sheet

Details of the supplier

| | |
|----------------|---|
| Company | CLEVERPATCH PTY LTD |
| ABN | 48 130 866 885 |
| Online | www.cleverpatch.com.au |
| Email | info@cleverpatch.com.au |
| Phone | 1300 836 522 |
| Fax | 1300 244 139 |
| Address | 9 Balbu Close, Beresfield, NSW 2322 Australia |
| Mail | PO Box 7, Hunter Region Mail Centre, NSW 2310 Australia |

1.4. Emergency telephone number

| | |
|------------------|---------------------------------------|
| Australia | 13 11 26 (Poisons Information Centre) |
|------------------|---------------------------------------|

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

| | |
|---|--|
| <i>Classification according to Regulation (EC) No 1272/2008</i> |  GHS02 H225 Flammable liquid and vapour; Category 2 |
|---|--|

2.2 Label elements

| | |
|--|---|
| <i>Labelling according to Regulation (EC) No 1272/2008</i> | <i>The product is classified and labelled according to the CLP regulation</i> |
|--|---|

| | |
|---|--|
| Hazard pictogram(s) |  GHS02 |
| Signal word | Danger! |
| Hazard-determining components of labelling | Not Applicable |
| Hazard statements | H225 Highly flammable liquid and vapour. |
| 2.2.1 Supplementary statement(s) | |
| EUH110 | Safety data sheet available on request. |
| 2.3 Precautionary statements | |
| ➤ Precautionary statement(s) Prevention | |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground and bond container and receiving equipment. |
| P241 | Use explosion-proof [electrical/ventilating/lighting] equipment. |
| P242 | Use only non-sparking tools |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| ➤ Precautionary statement(s) Response | |
| P303+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P370+P378 | In case of fire: Use ... to extinguish. |
| ➤ Precautionary statement(s) Storage | |
| P405 | Store locked up. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| ➤ Precautionary statement(s) Disposal | |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

2.4 Other hazards

| | |
|-----------------------------|--|
| C.I. Pigment Blue 15 | Listed in the Europe Regulation (EU) 2018/1881 Specific Requirements for Endocrine Disruptors. |
| C.I. Pigment Green 7 | Listed in the Europe Regulation (EU) 2018/1881 Specific Requirements for Endocrine Disruptors. |

SECTION 3 Composition/information on ingredients

3.1 Substances

See 'Composition on ingredients' in Section 3.2

3.2 Mixtures

➤ **Description:** Mixture of substances listed.

| I.CAS No 2.EC No 3.Index No 4.REACH No | %[weight] | Name | Classification according to regulation (EC)No 1272/2008 [CLP] and amendments | Nanoform Particle Characteristics | SCL/M-Factor/ATE |
|---|------------------|----------------|---|--|-------------------------|
| Common ingredients on each color | | | | | |
| 1.64-17-5 2.208-578-6 3.603-002-00-5 4.Not Available | 33.0-35.0 | Ethanol | Flam Liquid Category 2; H225 | Not Applicable | Not Applicable |

| | | | | | |
|---|-----------|---------------------------------------|--|----------------|----------------|
| 1.25322-68-3 2.208-038-2 3.Not Available 4.Not Available | 10.0 | <i>Polyethylene glycol</i> | Not Classified | Not Applicable | Not Applicable |
| 1.37-55-6 2.208-338-0 3.Not Available 4.01-2119456809-23-0179 | 8.0 | <i>Propane-1,2-diol</i> | Not Classified | Not Applicable | Not Applicable |
| 1.25168-73-4 2.246-705-9 3.Not Available 4.Not Available | 14.0-15.0 | <i>Sucrose stearate</i> | Not Classified | Not Applicable | Not Applicable |
| 1.63148-65-2 2.613-158-6 3.Not Available 4.Not Available | 5.0 | <i>Poly(vinyl butyral)</i> | Skin irritation Category 2; H315 Eye irritation Category 2A; H319 STOT SE Category 3; H335 | Not Applicable | Not Applicable |
| 1.67-63-0 2.208-661-7 3.Not Available 4.Not Available | 9.0 | <i>Isopropanol</i> | Flam Liquid Category 2; H225 Eye irritation Category 2A; H319 STOT SE Category 3; H336 | Not Applicable | Not Applicable |
| 1.9004-96-0 2.208-015-7 3.Not Available 4.Not Available | 16.0 | <i>Polyethylene glycol monooleate</i> | Not Classified | Not Applicable | Not Applicable |
| <i>Additional ingredients on each color</i> | | | | | |
| Black | | | | | |
| 1.1333-86-4 2.215-689-9 3.Not Available 4.Not Available | 5.0 | <i>Carbon black</i> | Not Classified | Not Applicable | Not Applicable |
| Red | | | | | |
| 1.84632-65-5 2.401-540-3 3.Not Available 4.Not Available | 6.0 | <i>Pigment Red 254</i> | Not Classified | Not Applicable | Not Applicable |
| Blue | | | | | |
| 1.147-14-8 2.205-685-1 3.Not Available 4.Not Available | 3.0 | <i>C.I. Pigment Blue 15:0</i> | Not Classified | Not Applicable | Not Applicable |
| 1.6358-38-1 2.226-767-9 3.Not Available 4.Not Available | 1.5 | <i>Pigment Violet 23</i> | Not Classified | Not Applicable | Not Applicable |
| Green | | | | | |
| 1.1328-53-6 2.215-524-7 3.Not Available 4.Not Available | 4.0 | <i>C.I. Pigment Green 7:0</i> | Not Classified | Not Applicable | Not Applicable |
| <i>Legend: (e) Substance identified as having endocrine disrupting properties</i> | | | | | |

SECTION 4 First aid measures

4.1 Description of first aid measures

| | |
|-----------------------|---|
| General advice | Seek medical attention if necessary. Show this Safety Data Sheet (SDS) to the physician present. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable. |
| Skin contact | Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable. |
| Ingestion | Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately. |
| Inhalation | Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately. |

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3 Indication of any immediate medical attention and special treatment needed

| | |
|--|--|
| Treat symptomatically | Periodic medical surveillance should be carried out on persons in occupations exposed to the manufacture or bulk handling of the product and this should include hepatic function tests and urinalysis examination. [ILO Encyclopaedia] |
| For acute or short term repeated exposures to ethanol | |
| 1 | Acute ingestion in non-tolerant patients usually responds to supportive care with special attention to prevention of aspiration, replacement of fluid and correction of nutritional deficiencies (magnesium, thiamine pyridoxine, Vitamins C and K). |

| | |
|---|---|
| 2 | Give 50% dextrose (50-100 ml) IV to obtunded patients following blood draw for glucose determination. |
| 3 | Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately. |
| 4 | Comatose patients should be treated with initial attention to airway, breathing, circulation and drugs of immediate importance (glucose, thiamine). |
| 5 | Decontamination is probably unnecessary more than 1 hour after a single observed ingestion. Cathartics and charcoal may be given but are probably not effective in single ingestions. |
| 6 | Fructose administration is contra-indicated due to side effects. |

For acute or short term repeated exposures to isopropanol

| | |
|---|--|
| 1 | Rapid onset respiratory depression and hypotension indicates serious ingestions that require careful cardiac and respiratory monitoring together with immediate intravenous access. |
| 2 | Rapid absorption precludes the usefulness of emesis or lavage 2 hours post-ingestion. Activated charcoal and cathartics are not clinically useful. Ipecac is most useful when given 30 mins. post-ingestion. |
| 3 | There are no antidotes. Management is supportive. Treat hypotension with fluids followed by vasopressors. |
| 4 | Watch closely, within the first few hours for respiratory depression; follow arterial blood gases and tidal volumes. |
| 5 | Ice water lavage and serial haemoglobin levels are indicated for those patients with evidence of gastrointestinal bleeding. |

SECTION 5 Firefighting measures

5.1 Extinguishing media

| | |
|--------------------------------|---|
| Suitable extinguishing media | CO ₂ powder or water spray. Fight larger fires with water spray or alcohol resistant foam. |
| Unsuitable extinguishing media | Water with full jet. |

5.2 Special hazards arising from the substrate or mixture

May form irritant vapor in air under fire.

5.3 Advice for firefighters

| | |
|---|---|
| 1 | As in any fire, wear self-contained breathing apparatus(MSHA/NIOSH approved or equivalent)and full protective gear. |
| 2 | Fight fire from a safe distance, with adequate cover. |
| 3 | Prevent fire extinguishing water from contaminating surface water or the ground water system. |
| 4 | Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which maybe toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. |

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| | |
|---|---|
| 1 | Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. |
| 2 | Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
| 3 | Use personal protective equipment. Avoid breathing vapours, mist, gas or dust. |
| 4 | Avoid contact with skin and eyes. |

6.2 Environmental precautions

| | |
|---|--|
| 1 | Do not allow to enter sewers/ surface or ground water. |
| 2 | Discharge into the environment must be avoided. |

6.3 Methods and material for containment and cleaning up

| | |
|---|--|
| 1 | Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). |
| 2 | Dispose contaminated material as waste according to item 13. |
| 3 | Ensure adequate ventilation. |

6.4 Reference to other sections

| | |
|---|---|
| 1 | See section 7 for information on safe handling. |
| 2 | See section 8 for information on personal protection equipment. |
| 3 | See section 13 for disposal information. |

SECTION 7 Handling and storage

7.1 Precautions for handling

➢ Protective measure

| | |
|---|--|
| 1 | Ensure good ventilation/exhaustion at the workplace. |
| 2 | Keep receptacles tightly sealed. |
| 3 | Keep away from heat and direct sunlight. |
| 4 | Prevent formation of aerosols. |
| 5 | Avoid contact with skin and eyes. |

➢ Information about fire - and explosion protection

| | |
|---|--|
| 1 | Keep ignition sources away - Do not smoke. |
| 2 | Protect against electrostatic charges. |

7.2 Conditions for safe storage, including any incompatibilities

| | |
|--------------------------------------|---|
| Requirements to be met by storerooms | <ul style="list-style-type: none"> ➢ Keep containers tightly closed. ➢ Keep containers in a dry, cool and well-ventilated place. ➢ Keep away from heat/sparks/open flames/hot surfaces. ➢ Store away from incompatible materials and food stuff containers. |
| Storage incompatibility | <p>Isopropanol:</p> <ul style="list-style-type: none"> ➢ Forms ketones and unstable peroxides on contact with air or oxygen; the presence of ketones especially methyl ethyl ketone (MEK, 2 butanone) will accelerate the rate of peroxidation; ➢ Reacts violently with strong oxidisers, powdered aluminium (exothermic), crotonaldehyde, diethyl aluminium bromide (ignition), dioxygenyl tetrafluoroborate (ignition/ ambient temperature), chromium trioxide (ignition), potassium-tert-butoxide (ignition), nitroform (possible explosion), oleum (pressure increased in closed container), cobalt chloride, aluminium trisopropoxide, hydrogen plus palladium dust (ignition), oxygen gas, phosgene, phosgene plus iron salts (possible explosion), sodium dichromate plus sulfuric acid (exothermic/ incandescence), trisobutyl aluminium; ➢ Reacts with phosphorus trichloride forming hydrogen chloride gas; ➢ Attacks some plastics, rubber and coatings; reacts with metallic aluminium at high temperature; ➢ May generate electrostatic charges; ➢ Avoid oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates. <p>Ethanol:</p> <ul style="list-style-type: none"> ➢ Are incompatible with strong acids, acid chlorides, acid anhydrides, oxidising and reducing agents; ➢ Reacts, possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen; ➢ React with strong acids, strong caustics, aliphatic amines, isocyanates, acetaldehyde, benzoyl peroxide, chromic acid, chromium oxide, dialkylzincs; ➢ Dichlorine oxide, ethylene oxide, hypochlorous acid, isopropyl chlorocarbonate, lithium tetrahydroaluminate, nitrogen dioxide, pentafluoroguanidine, phosphorus halides, phosphorus pentasulfide, tangerine oil, triethylaluminium, trisobutylaluminium; ➢ Should not be heated above 49 deg. C. when in contact with aluminium equipment; ➢ Toxic gases are formed by mixing azo and azido compounds with acids, aldehydes, amides, carbamates, cyanides, inorganic fluorides, Halogenated organics, isocyanates, ketones, metals, nitrides, peroxides, phenols, epoxides, acyl halides, and strong oxidising or reducing agents; ➢ Flammable gases are formed by mixing azo and azido compounds with alkali metals; ➢ Explosive combination can occur with strong oxidising agents, metal salts, peroxides, and sulfides. |

7.3 Specific end use(s)

In addition to use mentioned in the first parts, unforeseen other specific end uses.

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

| Ingredient | DNELs Exposure Pattern Worker | PNECs Compartment |
|-----------------------------|---|--|
| <i>Propane-1,2-diol</i> | <i>Inhalation 10 mg/m³ (Local, Chronic)</i> <i>Inhalation 168 mg/m³ (Systemic, Chronic)</i> <i>Inhalation 10 mg/m³ (Local, Chronic)*</i> <i>Inhalation 50 mg/m³ (Systemic, Chronic)*</i> | <i>260 mg/L (Water (Fresh))</i> <i>183 mg/L (Water - Intermittent release)</i> <i>26 mg/L (Water (Marine))</i> <i>572 mg/kg sediment dw (Sediment (Fresh Water))</i> <i>57.2 mg/kg sediment dw (Sediment (Marine))</i> <i>50 mg/kg soil dw (Soil)</i> <i>20000 mg/L (STP)</i> |
| <i>Ethanol</i> | <i>Inhalation 380 mg/m³ (Systemic, Chronic)</i> <i>Inhalation 1900 mg/m³ (Local, Acute)</i> <i>Dermal 343 mg/kg bw/day (Systemic, Chronic)</i> <i>Inhalation 114 mg/m³ (Systemic, Chronic)*</i> <i>Inhalation 950 mg/m³ (Local, Acute)*</i> <i>Dermal 206 mg/kg bw/day (Systemic, Chronic)*</i> <i>Oral 87 mg/kg bw/day (Systemic, Chronic)*</i> | <i>0.96 mg/L (Water (Fresh))</i> <i>2.75 mg/L (Water - Intermittent release)</i> <i>0.79 mg/L (Water (Marine))</i> <i>3.6 mg/kg sediment dw (Sediment (Fresh Water))</i> <i>0.63 mg/kg soil dw (Soil)</i> <i>580 mg/L (STP)</i> <i>380 - 720 mg/kg food (Secondary poisoning)</i> |
| <i>Polyethylene glycol</i> | <i>Inhalation 40.2 mg/m³ (Systemic, Chronic)</i> <i>Dermal 112 mg/kg bw/day (Systemic, Chronic)</i> <i>Inhalation 7.14 mg/m³ (Systemic, Chronic)*</i> <i>Dermal 40 mg/kg bw/day (Systemic, Chronic)*</i> <i>Oral 40 mg/kg bw/day (Systemic, Chronic)*</i> | <i>273 mg/L (Water (Fresh))</i> <i>1 mg/L (Water - Intermittent release)</i> <i>27.3 mg/L (Water (Marine))</i> <i>0.01 mg/L (Marine water - Intermittent release)</i> <i>1030 mg/kg sediment dw (Sediment (Fresh Water))</i> <i>103 mg/kg sediment dw (Sediment (Marine))</i> <i>46.4 mg/kg soil dw (Soil)</i> |
| <i>Carbon black</i> | <i>Inhalation 1 mg/m³ (Systemic, Chronic)</i> <i>Inhalation 0.06 mg/m³ (Systemic, Chronic)*</i> | <i>50 mg/L (Water (Fresh))</i> |
| <i>Isopropanol</i> | <i>Inhalation 500 mg/m³ (Systemic, Chronic)</i> <i>Inhalation 1000 mg/m³ (Systemic, Acute)</i> <i>Dermal 888 mg/kg bw/day (Systemic, Chronic)</i> <i>Inhalation 89 mg/m³ (Systemic, Chronic)*</i> <i>Inhalation 178 mg/m³ (Systemic, Acute)*</i> <i>Dermal 319 mg/kg bw/day (Systemic, Chronic)</i> <i>Oral 26 mg/kg bw/day (Systemic, Chronic)*</i> <i>Oral 51 mg/kg bw/day (Systemic, Acute)*</i> | <i>Not data available</i> |
| <i>Pigment Red 254</i> | <i>Inhalation 0.768 mg/m³ (Systemic, Chronic)</i> <i>Inhalation 0.042 mg/m³ (Local, Chronic)</i> <i>Dermal 3.33 mg/kg bw/day (Systemic, Chronic)</i> <i>Inhalation 0.140 mg/m³ (Systemic, Chronic)*</i> <i>Inhalation 0.0075 mg/m³ (Local, Chronic)*</i> <i>Dermal 1.66 mg/kg bw/day (Systemic, Chronic)*</i> <i>Dermal 7.5 µg/cm² (Local, Chronic)*</i> <i>Oral 1.66 mg/kg bw/day (Systemic, Chronic)*</i> | <i>499 - 10 000 µg/L (Water (Fresh))</i> <i>499 - 10 000 µg/L (Water - Intermittent release)</i> <i>499 - 10 000 µg/L (Water (Marine))</i> <i>1 mg/L (STP)</i> <i>377-688 mg/kg sediment dw (Sediment (Fresh Water))</i> <i>377-688 mg/kg sediment dw (Sediment (Marine))</i> <i>1 mg/kg soil dw (Soil)</i> |
| <i>C.I. Pigment Blue 15</i> | <i>Inhalation 10 mg/m³ (Local, Chronic)</i> | <i>Not data available</i> |
| <i>C.I. Pigment Green 7</i> | <i>Inhalation 1.25 mg/m³ (Local, Chronic)</i> <i>Inhalation 1.25 mg/m³ (Local, Chronic)*</i> | <i>Not data available</i> |

* Values for General Population

8.1.1 Occupational Exposure Limits (OEL)

► *Ingredient data*

| Ingredient | Country | Limit value - Eight hours | Limit value - Short term |
|---|--------------|--|--|
| <i>Propane-1,2-diol (particulates)</i> | Ireland | 10 mg/m ³ | Not data available |
| | Latvia | 7 mg/m ³ | Not data available |
| | Poland | 100 mg/m ³ | Not data available |
| | WELs(UK) | 10 mg/m ³ | Not data available |
| <i>Propane-1,2-diol (total vapour and particulates)</i> | Ireland | 150 ppm 474 mg/m ³ | Not data available |
| | Norway | 25 ppm 79 mg/m ³ | Not data available |
| | WELs(UK) | 150 ppm 474 mg/m ³ | Not data available |
| <i>Polyethylene glycol</i> | Austria | 1000 mg/m ³ inhalable aerosol | 4000 mg/m ³ inhalable aerosol |
| | Denmark | 1000 mg/m ³ | 2000 mg/m ³ |
| | DFG(Germany) | 250 mg/m ³ ²³³⁰ | 500 mg/m ³ ²³³⁰ |
| | AGS(Germany) | 200 mg/m ³ ²³³⁰ | 400 mg/m ³ ²³³⁰ |
| | Switzerland | 500 mg/m ³ | Not data available |

| | | | |
|---------------------|-----------------|---|---|
| <i>Ethanol</i> | Belgium | 1000ppm 1907mg/m ³ | Not data available |
| | Austria | 1000ppm 1900mg/m ³ | 2000ppm 3800mg/m ³ |
| | Denmark | 1000ppm 1900mg/m ³ | 2000ppm 3800mg/m ³ |
| | Finland | 1000ppm 1900mg/m ³ | 1300ppm 2500mg/m ³ ¹⁰ |
| | MAK(Germany) | 0.3R mg/m ³ | Not data available |
| | VLEP (France) | 1000ppm 1900mg/m ³ | 5000ppm 9500mg/m ³ |
| | AGS(Germany) | 200ppm 380mg/m ³ | 800ppm 1520mg/m ³ ¹⁰ |
| | DFG(Germany) | 200ppm 380mg/m ³ | 800ppm 1520mg/m ³ ¹⁰ |
| | Hungary | 1900mg/m ³ | 3800mg/m ³ ¹⁰ |
| | Ireland | Not data available | 1000ppm (15 minutes reference period) |
| | Latvia | 1000 mg/m ³ | Not data available |
| | Norway | 500ppm 950mg/m ³ | Not data available |
| | Poland | 1900mg/m ³ | Not data available |
| | Romania | 1000ppm 1900mg/m ³ | 5000ppm 9500mg/m ³ ¹⁰ |
| | Spain | Not data available | 1000ppm 1910mg/m ³ |
| | Sweden | 500ppm 1000mg/m ³ | 1000ppm 1910mg/m ³ ¹⁰ |
| | Switzerland | 500ppm 960mg/m ³ | 1000ppm 1920mg/m ³ |
| | The Netherlands | 260mg/m ³ (Skin) | 1900mg/m ³ (Skin) ¹⁰ |
| | WELs(UK) | 1000ppm 1920mg/m ³ | Not data available |
| <i>Isopropanol</i> | Austria | 200ppm 500mg/m ³ | 800ppm 2000mg/m ³ |
| | Belgium | 200ppm 500mg/m ³ | 400ppm 1000mg/m ³ ¹⁰ |
| | Denmark | 200ppm 490mg/m ³ | 400ppm 980mg/m ³ |
| | Finland | 200ppm 500mg/m ³ | 250ppm 620mg/m ³ ¹⁰ |
| | VLEP (France) | Not data available | 400ppm 980mg/m ³ |
| | AGS(Germany) | 200ppm 500mg/m ³ | 400ppm 1000mg/m ³ ¹⁰ |
| | DFG(Germany) | 200ppm 500mg/m ³ | 400ppm 1000mg/m ³ ¹⁰ |
| | Hungary | 500mg/m ³ (Skin) ¹⁰ | 1000mg/m ³ (Skin) ¹⁰ |
| | Ireland | 200ppm | 400ppm(15 minutes reference period) |
| | Latvia | 350mg/m ³ | 600mg/m ³ ¹⁰ |
| | Norway | 100ppm 245mg/m ³ | Not data available |
| | Poland | 900mg/m ³ | 1200mg/m ³ |
| | Romania | 81ppm 200mg/m ³ | 203ppm 500mg/m ³ ¹⁰ |
| | Spain | 200ppm 500mg/m ³ | 400ppm 1000mg/m ³ |
| | Sweden | 150ppm 350mg/m ³ | 250ppm 600mg/m ³ ¹⁰ |
| | Switzerland | 200ppm 500mg/m ³ | 400ppm 1000mg/m ³ |
| | WELs(UK) | 400ppm 999mg/m ³ | 500ppm 1250mg/m ³ |
| <i>Carbon black</i> | VLEP (France) | 3.5mg/m ³ | Not data available |
| | WELs(UK) | 3.5mg/m ³ | 7mg/m ³ |
| | Belgium | 3mg/m ³ | 7mg/m ³ |
| | Finland | 3.5mg/m ³ | 7mg/m ³ 15 minutes average value |
| | Hungary | 3mg/m ³ Inhalable fraction | Not data available |
| | Ireland | 3mg/m ³ Inhalable fraction | Not data available |
| | Norway | 3.5mg/m ³ | Not data available |

| | | | |
|----------------------|--------|---------------------------------------|--------------------|
| | Poland | 4mg/m ³ Inhalable fraction | Not data available |
| | Spain | 3.5mg/m ³ | Not data available |
| | Sweden | 3mg/m ³ | Not data available |
| C.I. Pigment Blue 15 | Latvia | 5mg/m ³ | Not data available |

Remarks: 1. Average molecular weight 200 – 600 2. Inhalable fraction 3. Because formation of a mist is possible, exposure should be minimized for reasons of occupational safety and hygiene. 4.13 minutes average value

► Emergency Limits

| Ingredient | TEEL-1 | TEEL-2 | TEEL-3 |
|---------------------|---------------------|-----------------------|-----------------------|
| Propane-1,2-diol | 30mg/m ³ | 1300mg/m ³ | 7900mg/m ³ |
| Ethanol | 1800ppm | 3300E*ppm | 15000*ppm |
| Carbon black | 9mg/m ³ | 99mg/m ³ | 590mg/m ³ |
| Polyethylene glycol | 30mg/m ³ | 1300mg/m ³ | 7700mg/m ³ |
| Isopropanol | 400ppm | 2000*ppm | 12000*ppm |

8.2 Engineering controls

| | |
|---|--|
| 1 | Ensure adequate ventilation, especially in confined areas. |
| 2 | Ensure that eyewash stations and safety showers are close to the workstation location. |
| 3 | Use explosion-proof electrical/ventilating/lighting/equipment. |
| 4 | Set up emergency exit and necessary risk-elimination area. |

8.3 Personal protection equipment

| | |
|--------------------------|--|
| General requirement |       |
| Eye protection | Tightly fitting safety goggles (approved by EN166(EU) or NIOSH(US)). |
| Hand protection | Wear protective gloves(such as butyl rubber, passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard). |
| Respiratory protection | If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges. |
| Skin and body protection | Wear fire/flame resistant/retardant clothing and antistatic boots. |
| Other protection | No special equipment needed when handling small quantities. |

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | | | | |
|----------------------------------|----------------------|--|---|----------------|
| Appearance | Black/Red/Blue/Green | Viscosity | Dynamic | Not determined |
| Physical state | Liquid | | Kinematic: | Not determined |
| Odour | Odourless | Vapour density (Air = 1) | | Not determined |
| Odour threshold | Not determined | Density/Relative density | | Not determined |
| pH (as supplied) | Not determined | Decomposition temperature | | Not determined |
| Melting point/freezing point(°C) | Not determined | Particle Size | | Not determined |
| Flash point(Closed cup, °C) | 20-22 °C | Vapour pressure (kPa) | | Not determined |
| Flammability | Flammable liquid | Relative vapor density | | Not determined |
| Evaporation rate | Not determined | Partition coefficient n-octanol/ water | | Not determined |
| Upper Explosive Limit (%) | Not determined | Auto-ignition temperature(°C) | | Not determined |
| Lower Explosive Limit (%) | Not determined | Explosive properties | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. | |

| | | | |
|----------------------------------|-----------------------|--|-----------------------|
| <i>Self-igniting</i> | <i>Not determined</i> | <i>Oxidising properties</i> | <i>Not determined</i> |
| <i>Taste</i> | <i>Not determined</i> | <i>Surface Tension (dyn/cm or mNm)</i> | <i>Not determined</i> |
| <i>Volatile Component (%vol)</i> | <i>Not determined</i> | <i>Gas group</i> | <i>Not determined</i> |
| <i>pH as a solution (1%)</i> | <i>Not determined</i> | <i>VOC g/L</i> | <i>Not determined</i> |

9.2 Other information

No further relevant information available

SECTION 10 Stability and reactivity

10.1 Stability and reactivity

| | |
|---|---|
| <i>Reactivity</i> | <i>No further relevant information available.</i> |
| <i>Chemical stability</i> | <i>Stable under proper operation and storage conditions.</i> |
| <i>Possibility of hazardous reactions</i> | <i>No dangerous reactions known.</i> |
| <i>Conditions to avoid</i> | <i>Incompatible materials, heat, flame and spark.</i> |
| <i>Incompatible materials</i> | <i>See section 7.2.</i> |
| <i>Hazardous decomposition products</i> | <i>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</i> |

SECTION 11 Toxicological information

11.1 Information on toxicological effects

| | |
|---------------------|---|
| <i>Eye</i> | <i>Direct contact of the eye with ethanol (alcohol) and isopropanol may cause an immediate stinging and burning sensation, with reflex closure of the lid, and a temporary, tearing injury to the cornea together with redness of the conjunctiva. Discomfort may last 2 days but usually the injury heals without treatment. Isopropanol vapour may cause mild eye irritation at 400 parts per million. Splashes may cause severe eye irritation, possible burns to the cornea and eye damage. Eye contact may cause tearing and blurring of vision. There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.</i> |
| <i>Inhaled</i> | <i>The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Animal testing shows that the most common signs of inhalation overdose is inco-ordination and drowsiness. Aliphatic alcohols with more than 3 carbons cause headache, dizziness, drowsiness, muscle weakness and delirium, central depression, coma, seizures and behavioural changes. Secondary respiratory depression and failure, as well as low blood pressure and irregular heart rhythms, may follow. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. The odour of isopropanol may give some warning of exposure, but odour fatigue may occur. Inhalation of isopropanol may produce irritation of the nose and throat with sneezing, sore throat and runny nose.</i> |
| <i>Skin Contact</i> | <i>The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.</i> |
| <i>Ingestion</i> | <i>The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence. Swallowing 10 millilitres of isopropanol may cause serious injury; 100 millilitres may be fatal if not properly treated. The adult single lethal dose is approximately 250 millilitres. Isopropanol is twice as poisonous as ethanol, and the effects caused are similar, except that isopropanol does not cause an initial feeling of well-being. Swallowing may cause nausea, vomiting and diarrhea; vomiting and stomach inflammation is more prominent with isopropanol than with ethanol.</i> |
| <i>Chronic</i> | <i>Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. Prolonged exposure to ethanol may cause damage to the liver and cause scarring. It may also worsen damage caused by other agents. Repeated inhalation exposure to isopropanol may produce sleepiness, inco-ordination and liver degeneration. Animal data show developmental effects only at exposure levels that produce toxic effects in adult animals. Isopropanol does not cause genetic damage.</i> |

| Whiteboard ink | TOXICITY | IRRITATION |
|---------------------------------------|--|--|
| | Not data available | Not data available |
| <i>Propane-1,2-diol</i> | TOXICITY Oral (rat) LD50: > 22000 mg/kg ¹¹ Inhalation(rat) LC50: > 44.9 mg/L ^{4h} ¹¹ Dermal ((rabbit) LD50: > 2000 mg/kg ¹¹ | IRRITATION Eye: no adverse effect observed (not irritating)(Draize) Skin: no adverse effect observed (not irritating)(Draize) |
| <i>Ethanol</i> | TOXICITY Inhalation(rat) LC50: > 82.1-92.6 mg/L ^{6h} ¹¹ Inhalation(rat) LC50: > 115.9-133.8 mg/L ^{4h} ¹¹ Inhalation(mouse) LC50: > 60000ppm/L ^{4h} ¹¹ Oral (mouse) LD50: > 8300 mg/kg ¹¹ | IRRITATION Skin (rabbit): non-irritating(Draize) Eye (rabbit): slight irritation (50% concentration) (Draize) |
| <i>Polyethylene glycol</i> | TOXICITY Oral (rat) LD50: > 2000 mg/kg ¹¹ Dermal (rat) LD50: > 2000 mg/kg ¹¹ | IRRITATION Skin (rabbit): non-irritating(Draize) Eye (rabbit): non-irritating (Draize) |
| <i>Polyethylene glycol monooleate</i> | TOXICITY Intravenous(mouse) LD50: > 500 mg/kg ¹¹ | IRRITATION Skin (rabbit): mild irritation(Draize) Eye (rabbit): mild irritation(Draize) |
| <i>Sucrose stearate</i> | TOXICITY Oral(mouse)LD50: > 28,915 mg/kg ¹¹ Oral (rat) > 22,000 mg/kg ¹¹ Oral(rabbit) > 14,000 mg/kg ¹¹ Dermal (rat) LD50: >2000 mg/kg ¹¹ | IRRITATION Not data available |
| <i>Isopropanol</i> | TOXICITY Oral(mouse)LD50: 5840 mg/kg ¹¹ Inhalation(rabbit) LC50: 10000ppm 6h ¹¹ Dermal (rat) LD50: 16.4 mg/kg ¹¹ | IRRITATION Skin: no adverse effect observed (not irritating)(Draize) Eye(rabbit): Causes serious eye irritation(Draize) |
| <i>Carbon black</i> | TOXICITY Dermal (rabbit) LD50: >3000 mg/kg ¹¹ Oral (rat) LD50: >8000 mg/kg ¹¹ | IRRITATION Eye: no adverse effect observed (not irritating)(Draize) Skin: no adverse effect observed (not irritating)(Draize) |
| <i>Pigment Red 254</i> | TOXICITY Oral (rat) LD50: >5000 mg/kg ¹¹ Inhalation(rat) LC50: >2.25 mg/L ¹¹ Dermal (rat) LD50: >2000 mg/kg ¹¹ | IRRITATION Eye: no adverse effect observed (not irritating)(Draize) Skin: no adverse effect observed (not irritating)(Draize) |
| <i>C.I. Pigment Blue 15</i> | TOXICITY Dermal (rat) LD50: >5000 mg/kg ¹¹ Oral (rat) LD50: >6400 mg/kg ¹¹ | IRRITATION Eye: no adverse effect observed (not irritating)(Draize) Skin: no adverse effect observed (not irritating)(Draize) |
| <i>Pigment Violet 23</i> | TOXICITY Oral (rat) LD50: >2000 mg/kg ¹¹ | IRRITATION Not data available |
| <i>C.I. Pigment Green 7</i> | TOXICITY Dermal (rat) LD50: >2000 mg/kg ¹¹ Oral (rat) LD50: >5000 mg/kg ¹¹ | IRRITATION Eye: no adverse effect observed (not irritating)(Draize) Skin: no adverse effect observed (not irritating)(Draize) |

Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS.

11.2 Carcinogenicity

| Component | Cas No. | IARC |
|---------------------------------------|------------|------------|
| <i>Propane-1,2-diol</i> | 57-55-6 | Not Listed |
| <i>Ethanol</i> | 64-17-5 | 1 |
| <i>Polyethylene glycol</i> | 25322-68-3 | Not Listed |
| <i>Polyethylene glycol monooleate</i> | 9004-96-0 | Not Listed |
| <i>Isopropanol</i> | 67-63-0 | Not Listed |
| <i>Sucrose stearate</i> | 25168-73-4 | Not Listed |
| <i>Poly(vinyl butyral)</i> | 63148-65-2 | Not Listed |
| <i>Carbon black</i> | 1333-86-4 | 2B |

| | | |
|----------------------|------------|------------|
| Pigment Red 254 | 84632-65-5 | Not Listed |
| C.I. Pigment Blue 15 | 147-14-8 | Not Listed |
| Pigment Violet 23 | 6358-30-1 | Not Listed |
| C.I. Pigment Green 7 | 1328-53-6 | Not Listed |

11.2.1 Endocrine Disruption Properties

Many chemicals may mimic or interfere with the body's hormones, known as the endocrine system. Endocrine disruptors are chemicals that can interfere with endocrine (or hormonal) systems.

Endocrine disruptors interfere with the synthesis, secretion, transport, binding, action, or elimination of natural hormones in the body. Any system in the body controlled by hormones can be derailed by hormone disruptors. Specifically, endocrine disruptors may be associated with the development of learning disabilities, deformations of the body various cancers and sexual development problems.

Endocrine disrupting chemicals cause adverse effects in animals. But limited scientific information exists on potential health problems in humans. Because people are typically exposed to multiple endocrine disruptors at the same time, assessing public health effects is difficult.

11.3 Primary irritant effect

| | |
|-------------------------------|--|
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation | Based on available data, the classification criteria are not met. |
| Serious eye damage/irritation | Isopropanol and Poly(vinyl butyral) : The substance does not meet the criteria for classification and labelling for this endpoint (Category 2: causes serious eye irritation) in accordance with Annex VI of Regulation (EC) No. 1272/2008. |
| Skin sensitization | Based on available data, the classification criteria are not met. |
| Respiratory sensitization | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | Based on available data, the classification criteria are not met. |
| STOT-single exposure | Based on available data, the classification criteria are not met. |
| STOT-repeated exposure | Based on available data, the classification criteria are not met. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |

SECTION 12 Ecological information

12.1 Toxicity

| Whiteboard ink | Endpoint | Test Duration (hr) | Species | Value |
|----------------------|--------------------|--------------------|---------------------------------|--------------------|
| | Not data available | Not data available | Not data available | Not data available |
| Propane-1,2-diol | Endpoint | Test Duration (hr) | Species | Value |
| | NOEC | 168h | Aquatic invertebrates | 13920 mg/l |
| | LC50 | 96h | Fish | 40613 mg/l |
| | LC50 | 48h | Fish | 18340 mg/l |
| | EC50 | 96h | Aquatic algae and cyanobacteria | 19800 mg/l |
| | EC50 | 48h | Aquatic invertebrates | 18340 mg/l |
| Carbon black | Endpoint | Test Duration (hr) | Species | Value |
| | LC50 | 96h | Fish | > 100 mg/l |
| | EC50 | 24h | Aquatic invertebrates | > 5600 mg/l |
| | EC50 | 72h | Aquatic algae and cyanobacteria | > 10000 mg/l |
| C.I. Pigment Blue 15 | Endpoint | Test Duration (hr) | Species | Value |
| | LC50 | 96h | Fish | > 100 mg/l |
| | EC50 | 48h | Aquatic invertebrates | > 500 mg/l |
| | NOEC | 504h | Aquatic invertebrates | 1mg/l |
| | EC50 | 72h | Aquatic algae and cyanobacteria | > 100 mg/l |

| | Endpoint | Test Duration (hr) | Species | Value |
|-----------------------------|----------|--------------------|---------------------------------|-------------------|
| <i>Ethanol</i> | LC50 | 96h | Fish | 14.2-15.4 g/l |
| | NOEC | 120h | Fish | 250-1000 mg/l |
| | NOEC | 240h | Aquatic invertebrates | 2-9.6 mg/l |
| | EC50 | 240h | Aquatic invertebrates | 1806 mg/l |
| | EC50 | 216h | Aquatic invertebrates | 434 mg/l |
| | EC50 | 48h | Aquatic invertebrates | 10 g/l |
| | EC50 | 168h | Aquatic plants other than algae | 4.452 - 5.967 g/l |
| | NOEC | 72h | Aquatic plants other than algae | 11.5 mg/l |
| | EC50 | 72h | Aquatic algae and cyanobacteria | 273 mg/l |
| | EC50 | 96h | Aquatic algae and cyanobacteria | 675 - 22 000 mg/l |
| <i>Polyethylene glycol</i> | Endpoint | Test Duration (hr) | Species | Value |
| | LC50 | 96h | Fish | > 100mg/l |
| | NOEC | 672h | Fish | 13.672 g/l |
| | LC50 | 168h | Fish | 1.15 g/l |
| | EC50 | 48h | Aquatic invertebrates | > 100mg/l |
| | NOEC | 504h | Aquatic invertebrates | 17.473 g/l |
| <i>Isopropanol</i> | Endpoint | Test Duration (hr) | Species | Value |
| | LC50 | 96h | Fish | 9.64-10 g/l |
| | NOELR | 672h | Fish | 1 g/l |
| | LC50 | 24h | Aquatic invertebrates | 10 g/l |
| | NOELR | 504h | Aquatic invertebrates | 1 g/l |
| | NOEC | 168h | Aquatic algae and cyanobacteria | 1800 mg/l |
| <i>Pigment Red 254</i> | Endpoint | Test Duration (hr) | Species | Value |
| | LC50 | 96h | Fish | > 100 mg/l |
| | EC50 | 24h | Aquatic invertebrates | > 100mg/l |
| | EC50 | 72h | Aquatic algae and cyanobacteria | > 100mg/l |
| <i>C.I. Pigment Green 7</i> | Endpoint | Test Duration (hr) | Species | Value |
| | LC50 | 96h | Fish | 100 mg/l |
| | EC50 | 48h | Aquatic invertebrates | 153.6 mg/l |
| | NOEC | 504h | Aquatic invertebrates | 1mg/l |
| | EC50 | 72h | Aquatic algae and cyanobacteria | 100 mg/l |

12.2 Persistence and degradability

| Component | Cas No. | Persistence (water/soil) |
|-----------------------------|------------|--------------------------------|
| <i>Ethanol</i> | 64-17-5 | Readily biodegradable in water |
| <i>Propane-1,2-diol</i> | 57-55-6 | Readily biodegradable in water |
| <i>Polyethylene glycol</i> | 25322-68-3 | Readily biodegradable in water |
| <i>Isopropanol</i> | 67-63-0 | Readily biodegradable in water |
| <i>Pigment Red 254</i> | 84632-65-5 | Not inherently biodegradable |
| <i>C.I. Pigment Blue 15</i> | 147-14-8 | Not biodegradable |
| <i>C.I. Pigment Green 7</i> | 1328-53-6 | Not biodegradable |

12.3 Bioaccumulative potential

| Component | Cas No. | Bioaccumulative potential | Remarks |
|----------------------|------------|-------------------------------------|--------------------------|
| Ethanol | 64-17-5 | No potential for bioaccumulation | Log Kow=-0.35 |
| Propane-1,2-diol | 57-55-6 | No potential for bioaccumulation | Log Kow=-1.07 |
| Isopropanol | 67-63-0 | Potential for a low bioaccumulation | Log Kow=0.05 BCF=1.015 |
| Polyethylene glycol | 25322-68-3 | Potential for a low bioaccumulation | Log Kow=-0.698 BCF=3.162 |
| Pigment Red 254 | 84632-65-5 | No potential for bioaccumulation | Log Kow=2.4-3 |
| C.I. Pigment Blue 15 | 147-14-8 | No potential for bioaccumulation | Log Kow=-1 |
| C.I. Pigment Green 7 | 1328-53-6 | No potential for bioaccumulation | Log Kow=-0.4 |

12.4 Mobility in soil

| Component | Cas No. | Soil Organic Carbon-Water Partitioning Coefficient (Koc) |
|---------------------|------------|--|
| Ethanol | 64-17-5 | Koc=1 |
| Polyethylene glycol | 25322-68-3 | Koc=1.857 |
| Isopropanol | 67-63-0 | Koc=3.478 |
| Propane-1,2-diol | 57-55-6 | Koc=2.9 |
| Pigment Red 254 | 84632-65-5 | Koc=341.5 |

12.5 Results of PBT and vPvB assessment

| | |
|------|---------------|
| PBT | Not Available |
| vPvB | Not Available |

12.6 Endocrine Disruption Properties

The evidence linking adverse effects to endocrine disruptors is more compelling in the environment than it is in humans.

Endocrine disruptors profoundly alter reproductive physiology of ecosystems and ultimately impact entire populations. Some endocrine-disrupting chemicals are slow to break-down in the environment.

That characteristic makes them potentially hazardous over long periods of time. Some well established adverse effects of endocrine disruptors in various wildlife species include; eggshell-thinning, displayed of characteristics of the opposite sex and impaired reproductive development. Other adverse changes in wildlife species that have been suggested, but not proven include; reproductive abnormalities, immune dysfunction and skeletal deformities.

12.7 Other adverse effects

No further relevant information available.

SECTION 13 Disposal considerations

13.1 Waste treatment methods

| | |
|------------------------------|--|
| Product / Packaging disposal | <p>Legislation addressing waste disposal requirements may differ by country, state and/or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</p> <ol style="list-style-type: none"> 1. Do not allow wash water from cleaning or process equipment to enter drains. 2. It may be necessary to collect all wash water for treatment before disposal. 3. Recycle wherever possible 4. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. |
| Waste treatment options | Not Available |
| Sewage disposal options | Not Available |

SECTION 14 Transport information

14.1 UN-Number

| | |
|--|---|
| ADR/RID/ADN, IMDG, IATA | UN1170 (Ethanol) UN1219 (Isopropanol) |
| 14.2 UN proper shipping name | |
| ADR/RID/ADN, IMDG | Ethanol (ethyl alcohol) mixture Isopropanol mixture |
| IATA | Ethanol mixture Isopropanol mixture |
| 14.3 Transport hazard class(es) | |
| ADR/RID/ADN, IMDG, IATA |  |
| Class | 3 Flammable liquids. |
| Label | 3 |
| 14.4 Packing group | |
| ADR/RID/ADN, IMDG, IATA | II |
| 14.5 Environmental hazards | |
| Not Applicable | |
| 14.6 Special precautions for user | |
| Warning | Flammable liquids |
| Hazard identification number (Kemler code) | 33 |
| EMS Number: | F-E,S-D |
| Storage Category | A |
| 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | |
| Not Applicable | |
| 14.8 Transport/Additional information | |
| UN "Model Regulation" | UN 1170 Ethanol (ethyl alcohol) mixture, 3, II UN1219 Isopropanol mixture, 3, II |

SECTION 15 Regulatory information

| | | |
|--|--|----|
| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture | | |
| MAK (German Maximum Workplace concentration) | | |
| 64-17-5 | Ethanol | 5 |
| 1333-86-4 | Carbon black | 3B |
| Directive 2012/18/EU | | |
| Named dangerous substances -ANNEX I | None of the ingredients is listed | |
| Other regulations, limitations and prohibitive regulations | | |
| SVHC CandidateList of REACH Regulation Annex XIV Authorisation | None of the ingredients is listed. | |
| REACH Regulation Annex XVII Restriction | Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles. | |
| REACH Regulation Annex XIV Authorization List | None of the ingredients is listed. | |

15.2 Chemical safety assessment

A Chemical Safe Assessment has not been carried out.

15.3 International chemical inventory

| Component | EINECS | TSCA | DSL | IECSC | NZIoC | PICCS | KECI | AICS |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Propane-1,2-diol | Listed |
| Ethanol | Listed |

| | | | | | | | | |
|--------------------------------------|-------------------|-------------------|---------------|---------------|---------------|---------------|---------------|-------------------|
| <i>Polyethylene glycol</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>Polyethyleneglycol monooleate</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>Sucrose stearate</i> | <i>Listed</i> | <i>Not Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>Poly(vinyl butyral)</i> | <i>Not Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>Isopropanol</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>Carbon black</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>Pigment Red 254</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>C.I. Pigment Blue 15</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |
| <i>Pigment Violet 23</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Not Listed</i> |
| <i>C.I. Pigment Green 7</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> | <i>Listed</i> |

[EINECS] European Inventory of Existing Commercial Chemical Substances

[TSCA] United States Toxic Substances Control Act Inventory

[DSL] Canadian Domestic Substances List

[IECSC] China Inventory of Existing Chemical Substances

[NZIoC] New Zealand Inventory of Chemicals

[PICCS] Philippines Inventory of Chemicals and Chemical Substances

[KECI] Existing and Evaluated Chemical Substances

[AICS] Australia Inventory of Chemical Substances

SECTION 16 Other information

16.1 Information on revision

| | |
|----------------------------|------------|
| <i>Creation Date</i> | 2022/10/24 |
| <i>Revision Date</i> | 2022/10/24 |
| <i>Reason for revision</i> | — |

16.2 Full text Risk and Hazard codes

| | |
|-------------|--|
| <i>H225</i> | Highly flammable liquid and vapour. |
| <i>H315</i> | Causes skin irritation. |
| <i>H319</i> | Causes serious eye irritation. |
| <i>H335</i> | May cause respiratory irritation/inhalation. |
| <i>H336</i> | May cause drowsiness or dizziness. |

16.3 Abbreviations and acronyms

SCL: Specific Concentration limits

ATE: Acute Toxicity Estimate

Cas: Chemical Abstracts Service

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

NOEC: No Observed Effect Concentration

NOELR: No Observed Adverse Effect Level

BCF: BioConcentration Factor

ELINCS: European List of Notified Chemical Substances

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

16.4 Further information

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

DISCLAIMER OF LIABILITY:

This Safety Data Sheet (SDS) was prepared according to REACH Regulation. The data included was derived from international authoritative data base and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.