# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 30 October 2016 Version



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

| 1.1 Product identifier        |                   |
|-------------------------------|-------------------|
| Product name                  | : PU PRIMER BLACK |
| Product code                  | : 2.705.0502/E20K |
| Other means of identification | : Not available.  |

| 1.2 Relevant identified u | uses of the substance or mixture and uses advised against |
|---------------------------|---|
| Product use               | : Industrial applications.                                |

| Product use           |            |
|-----------------------|------------|
| Use of the substance/ | : Coating. |
| mixture               |            |

#### 1.3 Details of the supplier of the safety data sheet

PPG Industries Italia S.r.I., Via Comasina, 121, 20161 Milano, Italy Tel: +39 02 6404.1 PPG Industries (UK) Ltd., Needham Road, Stowmarket, Suffolk, IP14 2AD, UK Tel: +44 (0) 1449 613161

| e-mail address of person | : EurMsdsContact@ppg.com |
|--------------------------|--------------------------|
| responsible for this SDS |                          |

#### **National contact**

PPG Industries (UK) Ltd. Customer Services and Sales Group, Needham Road, Stowmarket, Suffolk, IP14 2AD Tel: +44 (0) 1449 771779 Fax: +44 (0) 1449 771603

#### 1.4 Emergency telephone number

**Supplier** 

Telephone number:Company emergency telephone number : +39 02 6404.1 (0800-1700)

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

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|---|-------------------|---|----------------------------|
| SECTION 2: Hazards  | identificati      | on  |                            |
| Hazard pictograms   |                   | ₹ <u>₹</u>  |                            |
| Signal word   | : Warning         | •   |                            |
| Hazard statements   |                   | quid and vapour.<br>tic life with long lasting effects.                             |                            |
| Precautionary statements  |                   |   |                            |
| Prevention  |                   | ive gloves. Wear eye or face protectior<br>irks, open flames and other ignition sou |                            |
| Response  | : Collect spillag | ge. IF ON SKIN (or hair): Take off imm  | nediately all contaminated |
| Storage   | : Store in a wel  | II-ventilated place. Keep cool.   |                            |
| Disposal  | : Not applicable  | е.  |                            |
|   | P280, P210, I     | P391, P303 + P361, P403, P235   |                            |
| Hazardous ingredients   | : Not applicable  |   |                            |
| Supplemental label elements   | : Not applicable  | e.  |                            |
| Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market and<br>use of certain dangerous<br>substances, mixtures and<br>articles | : Not applicable  | e.  |                            |
| Special packaging requirem  | <u>ents</u>       |   |                            |
| Containers to be fitted with child-resistant  | : Not applicable  | e.  |                            |
| fastenings  |                   |   |                            |

**Other hazards which do** : Prolonged or repeated contact may dry skin and cause irritation. **not result in classification** 

## **SECTION 3: Composition/information on ingredients**

| 3.2 Mixtures : I                                   |   |             | <b>Classification</b>  |         |
|--|---|-------------|--|---------|
| Product/ingredient name                            | Identifiers   | % by weight | Regulation (EC) No.<br>1272/2008 [CLP]                             | Туре    |
| n-butyl acetate                                    | REACH #: 01-2119485493-29<br>EC: 204-658-1<br>CAS: 123-86-4<br>Index: 607-025-00-1  | ≥10 - ≤13   | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066                    | [1] [2] |
| trizinc bis(orthophosphate)                        | REACH #: 01-2119485044-40<br>EC: 231-944-3<br>CAS: 7779-90-0<br>Index: 030-011-00-6 | ≥5.0 - ≤10  | Aquatic Acute 1, H400<br>(M=1)<br>Aquatic Chronic 1, H410<br>(M=1) | [1]     |
| Solvent naphtha (petroleum), light arom. Nota(s) P | EC: 265-199-0<br>CAS: 64742-95-6  | ≥1.0 - ≤6.8 | Flam. Liq. 3, H226<br>STOT SE 3, H335                              | [1]     |
| English (GB)                                       | United Kingd  | om (UK)     |  | 2/1     |

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|--|---|------------------|--|---------|
| SECTION 3: Compos                        | ition/information on ingi   | edients          |  |         |
|  | Index: 649-356-00-4   |                  | STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>EUH066  |         |
| xylene                                   | REACH #: 01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9 | ≥1.0 - ≤6.4      | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H315<br>STOT SE 3, H335<br>STOT RE 2, H373<br>(central nervous system<br>(CNS), kidneys and liver)<br>Asp. Tox. 1, H304 | [1] [2] |
| 1,2,4-trimethylbenzene                   | EC: 202-436-9<br>CAS: 95-63-6<br>Index: 601-043-00-3                                | ≥1.0 - ≤3.5      | Flam. Liq. 3, H226<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Aquatic Chronic 2, H411  | [1] [2] |
| zinc oxide                               | REACH #: 01-2119463881-32<br>EC: 215-222-5<br>CAS: 1314-13-2<br>Index: 030-013-00-7 | ≤0.30            | Aquatic Acute 1, H400<br>(M=1)<br>Aquatic Chronic 1, H410<br>(M=1)   | [1]     |
|  |   |                  | See Section 16 for the full text of the H statements declared above.   |         |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

#### SUB codes represent substances without registered CAS Numbers.

## **SECTION 4: First aid measures**

| I.1 Description of first aid measures |  |  |  |  |
|---------------------------------------|--|--|--|--|
| Eye contact                           | <ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids<br/>apart for at least 10 minutes and seek immediate medical advice.</li> </ul>  |  |  |  |
| Inhalation                            | <ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is<br/>irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by<br/>trained personnel.</li> </ul> |  |  |  |
| Skin contact                          | <ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and<br/>water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>   |  |  |  |
| Ingestion                             | : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.   |  |  |  |
|                                       |  |  |  |  |

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| SECTION 4: First ai                               | d measures   |
| Protection of first-aiders                        | : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |
|   | ns and effects, both acute and delayed   |
| Potential acute health effe                       |  |
| Eye contact                                       | : No known significant effects or critical hazards.  |
| Inhalation  | : No known significant effects or critical hazards.  |
| Skin contact                                      | : Defatting to the skin. May cause skin dryness and irritation.  |
| Ingestion   | : No known significant effects or critical hazards.  |
| Over-exposure signs/sym                           | ptoms  |
| Eye contact                                       | : No specific data.  |
| Inhalation  | : No specific data.  |
| Skin contact                                      | : Adverse symptoms may include the following:<br>irritation<br>dryness<br>cracking   |
| Ingestion   | : No specific data.  |
| 4.3 Indication of any immed                       | iate medical attention and special treatment needed  |
| Notes to physician                                | : In case of inhalation of decomposition products in a fire, symptoms may be delayed<br>The exposed person may need to be kept under medical surveillance for 48 hours.    |
| Specific treatments                               | : No specific treatment.   |
| SECTION 5: Firefig                                | nting measures   |
| 5.1 Extinguishing media<br>Suitable extinguishing | : Use dry chemical. CO2 water spray (fog) or foam.   |

| Suitable extinguishing media          | : Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.   |
|---------------------------------------|--|
| Unsuitable extinguishing media        | : Do not use water jet.  |
| 5.2 Special hazards arising f         | om the substance or mixture  |
| Hazards from the substance or mixture | : Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur<br>and the container may burst, with the risk of a subsequent explosion. Runoff to sewer<br>may create fire or explosion hazard. This material is toxic to aquatic life with long<br>lasting effects. Fire water contaminated with this material must be contained and<br>prevented from being discharged to any waterway, sewer or drain. |
| Hazardous combustion<br>products      | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides<br>sulfur oxides<br>phosphorus oxides<br>metal oxide/oxides  |
| 5.3 Advice for firefighters           |  |
| Special precautions for fire fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.   |

| English (GB) | United Kingdom (UK) | 4/17 |
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| Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 20 | 015/830 - |
|---|-----------|
| United Kingdom (UK)   |           |

| SECTION 5. Eirofighting mag |                                |                   |
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### **SECTION 5: Firefighting measures**

| Special protective<br>equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |
|---|---|
|---|---|

## **SECTION 6: Accidental release measures**

| 6.1 Personal precautions, pro   | ote | ctive equipment and emergency procedures   |
|---------------------------------|-----|--|
| For non-emergency<br>personnel  | :   | No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilt material. Shut off all ignition sources.<br>No flares, smoking or flames in hazard area. Avoid breathing vapour or mist.<br>Provide adequate ventilation. Wear appropriate respirator when ventilation is<br>inadequate. Put on appropriate personal protective equipment.   |
| For emergency responders        | :   | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".  |
| 6.2 Environmental precautions   | :   | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains<br>and sewers. Inform the relevant authorities if the product has caused environmental<br>pollution (sewers, waterways, soil or air). Water polluting material. May be harmful<br>to the environment if released in large quantities. Collect spillage.  |
| 6.3 Methods and material for    | co  | ntainment and cleaning up  |
| Small spill                     | :   | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.   |
| Large spill                     | :   | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. |
| 6.4 Reference to other sections | :   | See Section 1 for emergency contact information.<br>See Section 8 for information on appropriate personal protective equipment.<br>See Section 13 for additional waste treatment information.  |

## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

|  | Protective measures | : Put on appropriate personal protective equipment (see Section 8). Eating, drinking<br>and smoking should be prohibited in areas where this material is handled, stored and<br>processed. Workers should wash hands and face before eating, drinking and<br>smoking. Remove contaminated clothing and protective equipment before entering<br>eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid<br>breathing vapour or mist. Avoid release to the environment. Refer to special<br>instructions/safety data sheet. Use only with adequate ventilation. Wear appropriate<br>respirator when ventilation is inadequate. Do not enter storage areas and confined |
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|  | English (GB) | United Kingdom (UK) | 5/17 |
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## **SECTION 7: Handling and storage**

|  | spaces unless adequately ventilated. Keep in the original container or an approved<br>alternative made from a compatible material, kept tightly closed when not in use.<br>Store and use away from heat, sparks, open flame or any other ignition source. Use<br>explosion-proof electrical (ventilating, lighting and material handling) equipment. Use<br>non-sparking tools. Take precautionary measures against electrostatic discharges.<br>To avoid fire or explosion, dissipate static electricity during transfer by earthing and<br>bonding containers and equipment before transferring material. Empty containers<br>retain product residue and can be hazardous. Do not reuse container. |
|--|--|
|  | Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.   |
| Advice on general<br>occupational hygiene                              | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.  |
| 7.2 Conditions for safe<br>storage, including any<br>incompatibilities | : Storage temperature: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.   |
| 7.3 Specific end use(s)  |  |
| Recommendations  | : Not available.   |
| Industrial sector specific solutions                                   | : Not available.   |

## **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### **Occupational exposure limits**

| Product/ingredient name | Exposure limit values                                  |      |  |
|-------------------------|--|------|--|
| n-butyl acetate         | EH40/2005 WELs (United Kingdom (UK), 12/2011).         |      |  |
|                         | STEL: 966 mg/m <sup>3</sup> 15 minutes.                |      |  |
|                         | STEL: 200 ppm 15 minutes.                              |      |  |
|                         | TWA: 724 mg/m <sup>3</sup> 8 hours.                    |      |  |
|                         | TWA: 150 ppm 8 hours.                                  |      |  |
| xylene                  | EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbe |      |  |
|                         | through skin.  |      |  |
|                         | STEL: 441 mg/m <sup>3</sup> 15 minutes.                |      |  |
|                         | STEL: 100 ppm 15 minutes.                              |      |  |
|                         | TWA: 220 mg/m <sup>3</sup> 8 hours.                    |      |  |
|                         | TWA: 50 ppm 8 hours.                                   |      |  |
| English (GB)            | United Kingdom (UK)                                    | 6/17 |  |

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## **SECTION 8: Exposure controls/personal protection**

| 1,2,4-trimethylbenzene | EH40/2005 WELs (United Kingdom (UK), 12/2011). |
|------------------------|--|
|                        | TWA: 125 mg/m <sup>3</sup> 8 hours.            |
|                        | TWA: 25 ppm 8 hours.                           |
|                        |  |

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs**

| Product/ingredient name | Туре | Exposure                 | Value                  | Population | Effects  |
|-------------------------|------|--------------------------|------------------------|------------|----------|
| n-butyl acetate         | DNEL | Long term<br>Inhalation  | 480 mg/m <sup>3</sup>  | Workers    | Systemic |
|                         | DNEL | Short term<br>Inhalation | 960 mg/m³              | Workers    | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 480 mg/m³              | Workers    | Local    |
|                         | DNEL | Short term<br>Inhalation | 960 mg/m³              | Workers    | Local    |
|                         | DNEL | Long term<br>Inhalation  | 102.34 mg/<br>m³       | Consumers  | Systemic |
|                         | DNEL | Short term<br>Inhalation | 859.7 mg/<br>m³        | Consumers  | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 102.34 mg/             | Consumers  | Local    |
|                         | DNEL | Short term<br>Inhalation | 859.7 mg/<br>m³        | Consumers  | Local    |
| lene                    | DNEL | Short term<br>Inhalation | 289 mg/m³              | Workers    | Systemic |
|                         | DNEL | Short term<br>Inhalation | 289 mg/m³              | Workers    | Local    |
|                         | DNEL | Long term Dermal         | 180 mg/kg<br>bw/day    | Workers    | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 77 mg/m <sup>3</sup>   | Workers    | Systemic |
|                         | DNEL | Short term<br>Inhalation | 174 mg/m³              | Consumers  | Systemic |
|                         | DNEL | Short term<br>Inhalation | 174 mg/m³              | Consumers  | Local    |
|                         | DNEL | Long term Dermal         | 108 mg/kg<br>bw/day    | Consumers  | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 14.8 mg/m <sup>3</sup> | Consumers  | Systemic |
|                         | DNEL | Long term Oral           | 1.6 mg/kg<br>bw/day    | Consumers  | Systemic |
| inc oxide               | DNEL | Long term<br>Inhalation  | 5 mg/m <sup>3</sup>    | Workers    | Systemic |
|                         | DNEL | Long term                | 2.5 mg/m³              | Consumers  | Systemic |
| English (GB)            |      | United Kingdon           | n (UK)                 |            | 7/       |

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| SECTION 8: Exposure controls/personal protection |                              |                       |            |            |  |
| DNE  | Inhalation<br>Long term Oral | 0.83 mg/<br>kg bw/day | Consumers  | Systemic   |  |
| DNE  | Long term Dermal             | 87 mg/kg<br>bw/day    | Consumers  | Systemic   |  |
| DNE  | Long term Dermal             | 87 mg/kg<br>bw/day    | Workers    | Systemic   |  |

| - |   | _ | _ |   |
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|   |   |   |   |   |

| Product/ingredient name | Туре | Compartment Detail        | Value           | Method Detail            |
|-------------------------|------|---------------------------|-----------------|--------------------------|
| n-butyl acetate         | -    | Fresh water               | 0.18 mg/l       | -                        |
| -                       | -    | Marine water              | 0.018 mg/l      | -                        |
|                         | -    | Fresh water sediment      | 0.981 mg/kg     | -                        |
|                         | -    | Marine water sediment     | 0.0981 mg/kg    | -                        |
|                         | -    | Sewage Treatment<br>Plant | 35.6 mg/l       | -                        |
|                         | -    | Soil                      | 0.0903 mg/kg    | -                        |
| xylene                  | -    | Fresh water               | 0.327 mg/l      | -                        |
|                         | -    | Marine water              | 0.327 mg/l      | -                        |
|                         | -    | Sewage Treatment<br>Plant | 6.58 mg/l       | -                        |
|                         | -    | Fresh water sediment      | 12.46 mg/kg dwt | -                        |
|                         | -    | Marine water sediment     | 12.46 mg/kg dwt | -                        |
|                         | -    | Soil                      | 2.31 mg/kg      | -                        |
| zinc oxide              | -    | Fresh water               | 20.6 µg/l       | Sensitivity Distribution |
|                         | -    | Marine water              | 6.1 µg/l        | Sensitivity Distribution |
|                         | -    | Fresh water sediment      | 117 mg/kg dwt   | Sensitivity Distribution |
|                         | -    | Sewage Treatment<br>Plant | 52 µg/l         | Assessment Factors       |
|                         | -    | Marine water sediment     | 56.5 mg/kg dwt  | Assessment Factors       |
|                         | -    | Soil                      | 35.6 mg/kg dwt  | Sensitivity Distribution |

| English (GB)   | United Kingdom (UK)   | 8/17   |
|--|---|--|
| Hand protection :  | Chemical-resistant, impervious gloves complying with an approved stands<br>be worn at all times when handling chemical products if a risk assessmer<br>this is necessary. Considering the parameters specified by the glove mar<br>check during use that the gloves are still retaining their protective properti<br>should be noted that the time to breakthrough for any glove material may<br>different for different glove manufacturers. In the case of mixtures, consis<br>several substances, the protection time of the gloves cannot be accurated<br>When prolonged or frequently repeated contact may occur, a glove with a | nt indicates<br>nufacturer,<br>jes. It<br>be<br>sting of<br>y estimated. |
| Skin protection  |   |  |
| Eye/face protection :  | Safety glasses with side shields.   |  |
| Hygiene measures :   | Wash hands, forearms and face thoroughly after handling chemical prod<br>eating, smoking and using the lavatory and at the end of the working period<br>Appropriate techniques should be used to remove potentially contaminated<br>Wash contaminated clothing before reusing. Ensure that eyewash station<br>safety showers are close to the workstation location.   | od.<br>ed clothing.  |
| Individual protection measures                               |   |  |
| 8.2 Exposure controls<br>Appropriate engineering<br>controls | Use only with adequate ventilation. Use process enclosures, local exhaus<br>ventilation or other engineering controls to keep worker exposure to airbo<br>contaminants below any recommended or statutory limits. The engineeri<br>also need to keep gas, vapour or dust concentrations below any lower ex<br>limits. Use explosion-proof ventilation equipment.  | rne<br>ng controls   |
|  |   |  |

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## **SECTION 8: Exposure controls/personal protection**

|                                 | class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended.  |
|---------------------------------|--|
| Gloves                          | : For prolonged or repeated handling, use the following type of gloves:  |
|                                 | Recommended: polyvinyl alcohol (PVA), Viton®<br>Not recommended: butyl rubber, nitrile rubber  |
| Body protection                 | : Personal protective equipment for the body should be selected based on the task<br>being performed and the risks involved and should be approved by a specialist<br>before handling this product. When there is a risk of ignition from static electricity,<br>wear anti-static protective clothing. For the greatest protection from static<br>discharges, clothing should include anti-static overalls, boots and gloves. Refer to<br>European Standard EN 1149 for further information on material and design<br>requirements and test methods. |
| Other skin protection           | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| Respiratory protection          | : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Filter type: organic vapour (Type A) and particulate filter P3  |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure<br>they comply with the requirements of environmental protection legislation. In some<br>cases, fume scrubbers, filters or engineering modifications to the process equipment<br>will be necessary to reduce emissions to acceptable levels.  |

## **SECTION 9: Physical and chemical properties**

| 9.1 Information on basic physical               | and chemical properties  |
|---|--|
| <u>Appearance</u>                               |  |
| Physical state                                  | : Liquid.  |
| Colour  | : Colourless.  |
| Odour   | : Characteristic.  |
| Odour threshold                                 | : Not available.   |
| рН  | : insoluble in water.  |
| Melting point/freezing point                    | <ul> <li>May start to solidify at the following temperature: -43.77°C (-46.8°F) This is based<br/>on data for the following ingredient: 1,2,4-trimethylbenzene. Weighted average:<br/>-84.15°C (-119.5°F)</li> </ul> |
| Initial boiling point and boiling range         | : >37.78°C   |
| Flash point                                     | : Closed cup: 34°C   |
| Evaporation rate                                | : <b>⊮</b> íghest known value: 1 (n-butyl acetate) Weighted average: 0.93compared with butyl acetate   |
| Material supports combustion.                   | : Yes.   |
| Flammability (solid, gas)                       | : liquid   |
| Upper/lower flammability or<br>explosive limits | : Lower: 0.7%<br>Upper: 8%   |
|   |  |

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## **SECTION 9: Physical and chemical properties**

| •                                       |   |   |
|---|---|---|
| Vapour pressure                         | 1 | Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate).<br>Weighted average: 0.93 kPa (6.98 mm Hg) (at 20°C) |
| Vapour density                          | 1 | Highest known value: 4.1 (Air = 1) (1,2,4-trimethylbenzene). Weighted average: 3.93 (Air = 1)                               |
| Relative density                        | : | 1.4   |
| Solubility(ies)                         | : | Insoluble in the following materials: cold water.   |
| Partition coefficient: n-octanol/ water | 1 | Not applicable.   |
| Auto-ignition temperature               | 1 | Lowest known value: 280 to 470°C (536 to 878°F) (Solvent naphtha (petroleum), light aromatic).                              |
| Decomposition temperature               | : | Stable under recommended storage and handling conditions (see Section 7).   |
| Viscosity                               | : | Kinematic (40°C): >0.21 cm²/s   |
| Viscosity                               | : | 60 - 100 s (ISO 6mm)  |
| Explosive properties                    | : | Product does not present an explosion hazard.   |
| Oxidising properties                    | 1 | Product does not present an oxidizing hazard.   |
|   |   |   |

#### 9.2 Other information

No additional information.

## **SECTION 10: Stability and reactivity**

| 10.1 Reactivity                            | : No specific test data related to reactivity available for this product or its ingredients.  |
|--|---|
| 10.2 Chemical stability                    | : The product is stable.  |
| 10.3 Possibility of<br>hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| 10.4 Conditions to avoid                   | <ul> <li>When exposed to high temperatures may produce hazardous decomposition products.</li> <li>Refer to protective measures listed in sections 7 and 8.</li> </ul> |
| 10.5 Incompatible materials                | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.                                      |
| 10.6 Hazardous<br>decomposition products   | : Vinder normal conditions of storage and use, hazardous decomposition products should not be produced.   |

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects Acute toxicity

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## **SECTION 11: Toxicological information**

| Product/ingredient name       | Result                 | Species | Dose                    | Exposure |
|-------------------------------|------------------------|---------|-------------------------|----------|
| calcium carbonate             | LD50 Oral              | Rat     | 6450 mg/kg              | -        |
| n-butyl acetate               | LC50 Inhalation Vapour | Rat     | >21.1 mg/l              | 4 hours  |
| -                             | LC50 Inhalation Vapour | Rat     | 2000 ppm                | 4 hours  |
|                               | LD50 Dermal            | Rabbit  | >17600 mg/kg            | -        |
|                               | LD50 Oral              | Rat     | 10.768 g/kg             | -        |
| Solvent naphtha               | LD50 Dermal            | Rabbit  | 3.48 g/kg               | -        |
| (petroleum), light arom. Nota |                        |         |                         |          |
| (s) P                         |                        |         |                         |          |
|                               | LD50 Oral              | Rat     | 8400 mg/kg              | -        |
| xylene                        | LC50 Inhalation Gas.   | Rat     | 6670 ppm                | 4 hours  |
|                               | LC50 Inhalation Vapour | Rat     | 5000 ppm                | 4 hours  |
|                               | LD50 Dermal            | Rabbit  | >1.7 g/kg               | -        |
|                               | LD50 Oral              | Rat     | 4.3 g/kg                | -        |
| 1,2,4-trimethylbenzene        | LC50 Inhalation Vapour | Rat     | 18000 mg/m <sup>3</sup> | 4 hours  |
|                               | LD50 Oral              | Rat     | 5 g/kg                  | -        |

**Conclusion/Summary** : Not available.

#### Acute toxicity estimates

| Route | ATE value                   |  |
|-------|-----------------------------|--|
|       | 19250.8 mg/kg<br>144.4 mg/l |  |

#### Irritation/Corrosion

| Product/ingredient name        | Result                     | Species | Score | Exposure     | Observation |
|--------------------------------|----------------------------|---------|-------|--------------|-------------|
| xylene                         | Skin - Moderate irritant   | Rabbit  | -     | 24 hours 500 | -           |
|                                |                            |         |       | mg           |             |
| <b>Conclusion/Summary</b>      | : Not available.           |         |       |              |             |
| Sensitisation                  |                            |         |       |              |             |
| Conclusion/Summary             | : Not available.           |         |       |              |             |
| <u>Mutagenicity</u>            |                            |         |       |              |             |
| Conclusion/Summary             | : Not available.           |         |       |              |             |
| Carcinogenicity                |                            |         |       |              |             |
| Conclusion/Summary             | : Not available.           |         |       |              |             |
| Reproductive toxicity          |                            |         |       |              |             |
| Conclusion/Summary             | : Not available.           |         |       |              |             |
| Teratogenicity                 |                            |         |       |              |             |
| Conclusion/Summary             | : Not available.           |         |       |              |             |
| Specific target organ toxicity | <u>y (single exposure)</u> |         |       |              |             |

| Product/ingredient name                            | Category   | Route of exposure | Target organs   |
|--|------------|-------------------|---|
| n-butyl acetate                                    | Category 3 | Not applicable.   | Narcotic effects  |
| Solvent naphtha (petroleum), light arom. Nota(s) P | Category 3 | Not applicable.   | Respiratory tract<br>irritation and<br>Narcotic effects |
| xylene   | Category 3 | Not applicable.   | Respiratory tract<br>irritation                         |
| 1,2,4-trimethylbenzene                             | Category 3 | Not applicable.   | Respiratory tract<br>irritation                         |

Specific target organ toxicity (repeated exposure)

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## **SECTION 11: Toxicological information**

|        | 5                       |            |                   |   |
|--------|-------------------------|------------|-------------------|---|
|        | Product/ingredient name | Category   | Route of exposure | Target organs   |
| xylene |                         | Category 2 |                   | central nervous<br>system (CNS),<br>kidneys and liver |

#### **Aspiration hazard**

| Product/i                                   | ingredient name   | Result  |  |
|---|---|---|--|
| Solvent naphtha (petroleum), xylene         | Solvent naphtha (petroleum), light arom. Nota(s) P       ASPIRATION HAZARD - Category 1         xylene       ASPIRATION HAZARD - Category 1 |   |  |
| Information on likely<br>routes of exposure | : Not available.  |   |  |
| Potential acute health effect               | <u>ts</u>   |   |  |
| Inhalation                                  | : No known significant effects or c   | ritical hazards.  |  |
| Ingestion                                   | : No known significant effects or c   | ritical hazards.  |  |
| Skin contact                                | : Defatting to the skin. May cause  | e skin dryness and irritation.                          |  |
| Eye contact                                 | : No known significant effects or c   | ritical hazards.  |  |
| Symptoms related to the ph                  | ysical, chemical and toxicological  | <u>characteristics</u>                                  |  |
| Inhalation                                  | : No specific data.   |   |  |
| Ingestion                                   | : No specific data.   |   |  |
| Skin contact                                | : Adverse symptoms may include<br>irritation<br>dryness<br>cracking   | dryness   |  |
| Eye contact                                 | : No specific data.   |   |  |
| Delayed and immediate effe                  | cts as well as chronic effects from   | <u>n short and long-term exposure</u>                   |  |
| <u>Short term exposure</u>                  |   |   |  |
| Potential immediate<br>effects              | : Not available.  |   |  |
| Potential delayed effects                   | : Not available.  |   |  |
| <u>Long term exposure</u>                   |   |   |  |
| Potential immediate effects                 | : Not available.  |   |  |
| Potential delayed effects                   | : Not available.  |   |  |
| Potential chronic health effe               | ects  |   |  |
| Not available.                              |   |   |  |
| Conclusion/Summary                          | : Not available.  |   |  |
| General                                     |   | an defat the skin and lead to irritation, cracking and/ |  |
| Carcinogenicity                             | : No known significant effects or c   | ritical hazards.  |  |
| Mutagenicity                                | : No known significant effects or c   | ritical hazards.  |  |
| Teratogenicity                              | : No known significant effects or c   | ritical hazards.  |  |
| <b>Developmental effects</b>                | : No known significant effects or c   | ritical hazards.  |  |
| Fertility effects                           | : No known significant effects or c   | ritical hazards.  |  |
| Other information                           | : Not available.  |   |  |

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## **SECTION 11:** Toxicological information

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

| Result                                  | Species   | Exposure   |
|---|---|--|
| Acute LC50 0.112 mg/l                   | Fish  | 96 hours   |
| Chronic NOEC 0.026 mg/l                 | Fish  | 30 days  |
| Acute EC50 0.17 mg/l                    | Algae   | 72 hours   |
| Acute EC50 0.481 mg/l Fresh water       | Daphnia - Daphnia magna -   | 48 hours   |
| , i i i i i i i i i i i i i i i i i i i | Neonate   |  |
| Chronic NOEC 0.017 mg/l Fresh water     | Algae   | 72 hours   |
|   | Acute LC50 0.112 mg/l<br>Chronic NOEC 0.026 mg/l<br>Acute EC50 0.17 mg/l<br>Acute EC50 0.481 mg/l Fresh water | Acute LC50 0.112 mg/lFishChronic NOEC 0.026 mg/lFishAcute EC50 0.17 mg/lAlgaeAcute EC50 0.481 mg/l Fresh waterDaphnia - Daphnia magna -<br>Neonate |

Conclusion/Summary :

: Not available.

#### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| xylene                  | -                 | -          | Readily          |

#### 12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF         | Potential |
|-------------------------|--------|-------------|-----------|
| n-butyl acetate         | 1.78   | -           | low       |
| xylene                  | 3.16   | 7.4 to 18.5 | low       |
| 1,2,4-trimethylbenzene  | 3.63   | 120.23      | low       |

| 12.4 Mobility in soil                     |                  |
|---|------------------|
| Soil/water partition<br>coefficient (Koc) | : Not available. |
| Mobility                                  | : Not available. |

| 12.5 Results | of PBT | and vPvB | assessment |
|--------------|--------|----------|------------|
|--------------|--------|----------|------------|

| PBT  | : Not applicable. |
|------|-------------------|
| vPvB | : Not applicable. |

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## **SECTION 12: Ecological information**

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### **13.1 Waste treatment methods**

| 1005  |  |
|---|--|
|   |  |
| : The generation of waste should be avoided or minimised wherever possible.<br>Disposal of this product, solutions and any by-products should at all times comply<br>with the requirements of environmental protection and waste disposal legislation and<br>any regional local authority requirements. Dispose of surplus and non-recyclable<br>products via a licensed waste disposal contractor. Waste should not be disposed of<br>untreated to the sewer unless fully compliant with the requirements of all authorities<br>with jurisdiction. |  |
| : Yes.  |  |
| <u>que (EWC)</u>  |  |
| Waste designation   |  |
| waste paint and varnish containing organic solvents or other hazardous substances   |  |
|   |  |
| <ul> <li>The generation of waste should be avoided or minimised wherever possible. Waste<br/>packaging should be recycled. Incineration or landfill should only be considered<br/>when recycling is not feasible.</li> </ul>  |  |
| European waste catalogue (EWC)  |  |
| 15 01 04 metallic packaging   |  |
| This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with   |  |
|   |  |

## 14. Transport information

| =                                  |         |                |        |        |
|------------------------------------|---------|----------------|--------|--------|
|                                    | ADR/RID | ADN            | IMDG   | IATA   |
| 14.1 UN number                     | UN1263  | UN1263         | UN1263 | UN1263 |
| 14.2 UN proper<br>shipping name    | PAINT   | PAINT          | PAINT  | PAINT  |
| 14.3 Transport<br>hazard class(es) | 3       | 3              | 3      | 3      |
| 14.4 Packing group                 | Ш       | III            | III    | III    |
| 14.5<br>Environmental<br>hazards   | Yes.    | Yes.           | Yes.   | No.    |
| English (GB)                       |         | United Kingdom | (UK)   | 14/17  |

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|---------------------------------|-----------------|-------------------|---------------|-------------------|
| 14. Transport information       |                 |                   |               |                   |
| Marine pollutant                | Not applicable. | Not applicable.   | (trizinc bis  | Not applicable.   |

|            | Not applicable. | Not applicable. |                    | Not applicable. |
|------------|-----------------|-----------------|--------------------|-----------------|
| substances |                 |                 | (orthophosphate),  |                 |
|            |                 |                 | Solvent naphtha    |                 |
|            |                 |                 | (petroleum), light |                 |
|            |                 |                 | aromatic)          |                 |

#### **Additional information**

| ADR/RID     | : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.                        |
|-------------|---|
| Tunnel code | : (D/E)   |
| ADN         | <ul> <li>The product is only regulated as an environmentally hazardous substance when transported in<br/>tank vessels.</li> </ul> |
| IMDG        | : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.   |
| ΙΑΤΑ        | : The environmentally hazardous substance mark may appear if required by other transportation regulations.                        |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorisation

#### **Annex XIV**

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### **Other EU regulations**

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

#### Category

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b E2: Hazardous to the aquatic environment - Chronic 2 C6: Flammable (R10) C9ii: Toxic for the environment

#### **15.2 Chemical safety** assessment

: No Chemical Safety Assessment has been carried out.

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## **SECTION 16: Other information**

✓ Indicates information that has changed from previously issued version.

| Abbreviations and acronyms | : ATE = Acute Toxicity Estimate   |
|----------------------------|---|
| -                          | CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. |
|                            | 1272/2008]  |
|                            | DNEL = Derived No Effect Level  |
|                            | EUH statement = CLP-specific Hazard statement                                 |
|                            | PNEC = Predicted No Effect Concentration                                      |
|                            | RRN = REACH Registration Number   |
|                            |   |

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification                               |
|----------------|---|
|                | On basis of test data<br>Calculation method |

#### Full text of abbreviated H statements

| H226  | Flammable liquid and vapour.                                |
|---|---|
| H304  | May be fatal if swallowed and enters airways.               |
| H312  | Harmful in contact with skin.                               |
| H315  | Causes skin irritation.                                     |
| H319  | Causes serious eye irritation.                              |
| H332  | Harmful if inhaled.   |
| H335  | May cause respiratory irritation.                           |
| H336  | May cause drowsiness or dizziness.                          |
| H373 (central nervous system (CNS), kidneys | May cause damage to organs through prolonged or repeated    |
| and liver)                                  | exposure. (central nervous system (CNS), kidneys and liver) |
| H400  | Very toxic to aquatic life.                                 |
| H410  | Very toxic to aquatic life with long lasting effects.       |
| H411  | Toxic to aquatic life with long lasting effects.            |

#### Full text of classifications [CLP/GHS]

| ACUTE TOXICITY (dermal) - Category 4                           |
|--|
| ACUTE TOXICITY (inhalation) - Category 4                       |
| ACUTE AQUATIC HAZARD - Category 1                              |
| LONG-TERM AQUATIC HAZARD - Category 1                          |
| LONG-TERM AQUATIC HAZARD - Category 2                          |
| ASPIRATION HAZARD - Category 1                                 |
| Repeated exposure may cause skin dryness or cracking.          |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2                |
| FLAMMABLE LIQUIDS - Category 3                                 |
| SKIN CORROSION/IRRITATION - Category 2                         |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)             |
| (central nervous system (CNS), kidneys and liver) - Category 2 |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)               |
| (Respiratory tract irritation) - Category 3                    |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)               |
| (Narcotic effects) - Category 3                                |
|  |

#### <u>History</u>

| Date of issue/ Date of revision | : 30 October 2016 |
|---------------------------------|-------------------|
| Date of previous issue          | : 27 July 2016    |
| Prepared by                     | : EHS             |
| Version                         | : 13.04           |
| <u>Disclaimer</u>               |                   |

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### **SECTION 16: Other information**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.