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| **1. Identification** |

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| **1.1. Product identifier** |

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| **Product Identity** | USFS Spray Gun Cleaner |  |
| **Alternate Names** | 00R4---501 (Quarts) |  |

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

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| **Intended use** | See Product Label |  |
| **Application Method** | See Product Label |  |

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

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| --- | --- |
| **Company Name** | LHB Industries |
|  | 8833 Fleischer Place |
|  | Berkeley, MO 63134 |
| **Emergency** |  |
| **24 hour Emergency Telephone No.** | (800) 633-8253 (PERS) |
| **Customer Service: LHB Industries** | (314) 423-4333 |

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| **2. Hazard(s) identification** |

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| **2.1. Classification of the substance or mixture** |

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| Combustible Liquid;H227 | Combustible Liquid. |
| Skin Irrit. 3;H316 | Causes mild skin irritation. (Not adopted by US OSHA) |
| Eye Irrit. 2;H319 | Causes serious eye irritation. |
| Asp. Tox. 1;H304 | May be fatal if swallowed and enters airways. |

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| **2.2. Label elements** |

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| |  |  | | --- | --- | | GHS07 | GHS08 | |

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| **Danger** |

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| H227 Combustible liquid. |
| H304 May be fatal if swallowed and enters airways. |
| H316 Causes mild skin irritation. |
| H319 Causes serious eye irritation. |

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| **[Prevention]:** |
| P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking. |
| P235 Keep cool. |
| P264 Wash thoroughly after handling. |
| P280 Wear protective gloves / eye protection / face protection. |
| **[Response]:** |
| P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician. |
| P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. |
| P331 Do NOT induce vomiting. |
| P332+313 If skin irritation occurs: Get medical advice / attention. |
| P337+313 If eye irritation persists: Get medical advice / attention. |
| P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction. |
| **[Storage]:** |
| P403+235 Store in a well ventilated place. Keep cool. |
| P405 Store locked up. |
| **[Disposal]:** |
| P501 Dispose of contents / container in accordance with local / national regulations. |

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| **3. Composition/information on ingredients** |

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| This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations. |

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| **Ingredient/Chemical Designations** | **Weight %** | **GHS Classification** | **Notes** |
| **Distillates (petroleum), hydrotreated light    CAS Number:     0064742-47-8** | **75 - 100** | **Asp. Tox. 1;H304** | **[1]** |
| **2-methylpentane-2,4-diol    CAS Number:     0000107-41-5** | **5 - 10** | **Eye Irrit. 2;H319  Skin Irrit. 2;H315** | **[1][2]** |
| **Butyl diglycol    CAS Number:     0000112-34-5** | **5 - 10** | **Eye Irrit. 2;H319** | **[1]** |

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| In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret. [1] Substance classified with a health or environmental hazard. [2] Substance with a workplace exposure limit. [3] PBT-substance or vPvB-substance. \*The full texts of the phrases are shown in Section 16. |

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| **4. First aid measures** |

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| **4.1. Description of first aid measures** |

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| **General** | In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. |
| **Inhalation** | Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth. |
| **Eyes** | Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention. |
| **Skin** | Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. |
| **Ingestion** | If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. |

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| **4.2. Most important symptoms and effects, both acute and delayed** |

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| **Overview** | Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits 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 include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.  Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details. |
| **Inhalation** | May be fatal if swallowed and enters airways. |
| **Eyes** | Causes serious eye irritation. |
| **Skin** | Causes mild skin irritation. |

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| **5. Fire-fighting measures** |

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| **5.1. Extinguishing media** |

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| Use dry chemical, CO₂, water spray (fog) or foam. |

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| **5.2. Special hazards arising from the substance or mixture** |

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| Hazardous decomposition: Oxides of Carbon |
| Keep away from heat / sparks / open flames / hot surfaces - No smoking. |
| Keep cool. |

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| **5.3. Advice for fire-fighters** |

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| Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

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| **ERG Guide No.** | --- |

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| **6. Accidental release measures** |

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| **6.1. Personal precautions, protective equipment and emergency procedures** |

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| Remove sources of ignition, do not turn lights or unprotected electrical equipment on or off. In case of a major spill or spillage in a confined space evacuate the area and check that solvent vapor levels are below the Lower Explosive Limit before re-entering. |

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| **6.2. Environmental precautions** |

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| Do not allow spills to enter drains or waterways. |
| Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. |

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| **6.3. Methods and material for containment and cleaning up** |

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| 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. Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |

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| **7. Handling and storage** |

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| **7.1. Precautions for safe handling** |
| Handle containers carefully to prevent damage and spillage. |
| Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container. 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. |
| See section 2 for further details. - [Prevention]: |

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| **7.2. Conditions for safe storage, including any incompatibilities** |
| 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. Store locked up. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. |
| Incompatible materials: Reactive or incompatible with the following materials: oxidizing materials. |
| See section 2 for further details. - [Storage]: |

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| **7.3. Specific end use(s)** |
| No data available. |

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| **8. Exposure controls and personal protection** |

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| **8.1. Control parameters** |
| **Exposure** |

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| **CAS No.** | **Ingredient** | **Source** | **Value** |
| 0000107-41-5 | 2-methylpentane-2,4-diol | OSHA | No Established Limit |
| ACGIH | Ceiling: 25 ppm |
| NIOSH | C 25 ppm (125 mg/m3) |
| Supplier | No Established Limit |
| 0000112-34-5 | Butyl diglycol | OSHA | No Established Limit |
| ACGIH | No Established Limit |
| NIOSH | No Established Limit |
| Supplier | No Established Limit |
| 0064742-47-8 | Distillates (petroleum), hydrotreated light | OSHA | No Established Limit |
| ACGIH | No Established Limit |
| NIOSH | No Established Limit |
| Supplier | Recommended 300 ppm PEL |

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| Contains mineral oil. The exposure limits for oil mist are 5 mg/m3 OSHA PEL and 10 mg/m3 ACGIH. |
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| **8.2. Exposure controls** |  |
| **Respiratory** | If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators. |
| **Eyes** | Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice. |
| **Skin** | Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact. |
| **Engineering Controls** | Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn. |
| **Other Work Practices** | Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. |

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| See section 2 for further details. |

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| **9. Physical and chemical properties** |

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| **Appearance** | Clear, Colorless Liquid |  |
| **Odor** | Mild Solvent |  |
| **pH** | Not Applicable |  |
| **Melting point / freezing point** | Not Measured |  |
| **Initial boiling point and boiling range** | Not Measured |  |
| **Flash Point** | >142°F |  |
| **Evaporation rate (Ether = 1)** | Not Measured |  |
| **Flammability (solid, gas)** | Not Applicable |  |
| **Upper/lower flammability or explosive limits** | **Lower Explosive Limit:** Not Measured |  |
|  | **Upper Explosive Limit:** Not Measured |  |
| **Vapor pressure (Pa)** | Not Measured |  |
| **Vapor Density** | Not Measured |  |
| **Specific Gravity** | 0.780 |  |
| **Solubility in Water** | Insoluble |  |
| **Partition coefficient n-octanol/water (Log Kow)** | Not Measured |  |
| **Auto-ignition temperature** | Not Measured |  |
| **Decomposition temperature** | Not Measured |  |
| **Viscosity (cSt)** | Not Measured |  |
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| **9.2. Other information** |
| No other relevant information. |

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| **10. Stability and reactivity** |

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| **10.1. Reactivity** |
| Hazardous Polymerization will not occur. |
| **10.2. Chemical stability** |
| Stable under normal circumstances. |
| **10.3. Possibility of hazardous reactions** |
| No data available. |
| **10.4. Conditions to avoid** |
| Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. |
| **10.5. Incompatible materials** |
| Reactive or incompatible with the following materials: oxidizing materials. |
| **10.6. Hazardous decomposition products** |
| Oxides of Carbon |

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| **11. Toxicological information** |

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| **Acute toxicity** |
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| Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits 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 include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.  Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. |

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| Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate). |

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| **Ingredient** | **Oral LD50,  mg/kg** | **Skin LD50,  mg/kg** | **Inhalation  Vapor LC50,  mg/L/4hr** | **Inhalation Dust/Mist LC50,   mg/L/4hr** | **Inhalation Gas LC50,  ppm** |
| Distillates (petroleum), hydrotreated light - (64742-47-8) | > 5,000.00, Rat - Category: NA | >2,000.00, Rabbit - Category: 5 | No data available | No data available | No data available |
| 2-methylpentane-2,4-diol - (107-41-5) | 3,700.00, Rat - Category: 5 | 7,892.00, Rabbit - Category: NA | No data available | No data available | No data available |
| Butyl diglycol - (112-34-5) | 5,530.00, Mouse - Category: NA | 2,764.00, Rabbit - Category: 5 | No data available | No data available | No data available |

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| **Carcinogen Data** |

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| --- | --- | --- | --- |
| **CAS No.** | **Ingredient** | **Source** | **Value** |
| 0000107-41-5 | 2-methylpentane-2,4-diol | OSHA | Regulated Carcinogen: No |
| NTP | Known: No;  Suspected: No |
| IARC | Group 1: No;  Group 2a: No;  Group 2b: No;  Group 3: No;  Group 4: No; |
| 0000112-34-5 | Butyl diglycol | OSHA | Regulated Carcinogen: No |
| NTP | Known: No;  Suspected: No |
| IARC | Group 1: No;  Group 2a: No;  Group 2b: No;  Group 3: No;  Group 4: No; |
| 0064742-47-8 | Distillates (petroleum), hydrotreated light | OSHA | Regulated Carcinogen: No |
| NTP | Known: No;  Suspected: No |
| IARC | Group 1: No;  Group 2a: No;  Group 2b: No;  Group 3: No;  Group 4: No; |

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| **Classification** | **Category** | **Hazard Description** |
| Acute toxicity (oral) | --- | Not Applicable |
| Acute toxicity (dermal) | --- | Not Applicable |
| Acute toxicity (inhalation) | --- | Not Applicable |
| Skin corrosion/irritation | 3 | Causes mild skin irritation. (Not adopted by US OSHA) |
| Serious eye damage/irritation | 2 | Causes serious eye irritation. |
| Respiratory sensitization | --- | Not Applicable |
| Skin sensitization | --- | Not Applicable |
| Germ cell mutagenicity | --- | Not Applicable |
| Carcinogenicity | --- | Not Applicable |
| Reproductive toxicity | --- | Not Applicable |
| STOT-single exposure | --- | Not Applicable |
| STOT-repeated exposure | --- | Not Applicable |
| Aspiration hazard | 1 | May be fatal if swallowed and enters airways. |

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| **12. Ecological information** |

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| **12.1. Toxicity** |
| No additional information provided for this product. See Section 3 for chemical specific data. |
| **Aquatic Ecotoxicity** |
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| **Ingredient** | **96 hr LC50 fish,  mg/l** | **48 hr EC50 crustacea,  mg/l** | **ErC50 algae,  mg/l** |
| Distillates (petroleum), hydrotreated light - (64742-47-8) | 45.00, Pimephales promelas | 4,720.00, Dendronereides heteropoda | Not Available |
| 2-methylpentane-2,4-diol - (107-41-5) | 10,000.00, Lepomis macrochirus | 2,800.00, Cerodaphnia reticulata | Not Available |
| Butyl diglycol - (112-34-5) | 1,300.00, Lepomis macrochirus | 4,950.00, Daphnia magna | 101.00 (96 hr), Desmodesmus subspicatus |

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| **12.2. Persistence and degradability** |
| There is no data available on the preparation itself. |
| **12.3. Bioaccumulative potential** |
| Not Measured |
| **12.4. Mobility in soil** |
| No data available. |
| **12.5. Results of PBT and vPvB assessment** |
| This product contains no PBT/vPvB chemicals. |
| **12.6. Other adverse effects** |
| No data available. |

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| **13. Disposal considerations** |

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| **13.1. Waste treatment methods** |
| Observe all federal, state and local regulations when disposing of this substance. |

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| **14. Transport information** |

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|  | **DOT (Domestic Surface Transportation)** | **IMO / IMDG (Ocean Transportation)** | **ICAO/IATA** |
| **14.1. UN number** | Not Regulated | Not Regulated | Not Regulated |
| **14.2. UN proper shipping name** |  |  |  |
| **14.3. Transport hazard class(es)** |  |  |  |
| **14.4. Packing group** |  |  |  |

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| **14.5. Environmental hazards** |

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| **IMDG** | Marine Pollutant: No; |
| **14.6. Special precautions for user** | |
|  | No further information |

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| **15. Regulatory information** |

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| **Regulatory Overview** | The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. |
| **Toxic Substance Control Act ( TSCA)** | All components of this material are either listed or exempt from listing on the TSCA Inventory. |
| **WHMIS 1988 Classification** | B3  D2B |

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| **US EPA Tier II Hazards** | **Fire:** | Yes |
|  | **Sudden Release of Pressure:** | No |
|  | **Reactive:** | No |
|  | **Immediate (Acute):** | Yes |
|  | **Delayed (Chronic):** | No |

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| **EPCRA 302 Extremely Hazardous:**  To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. |

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| **EPCRA 313 Toxic Chemicals:** |

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|  | Butyl diglycol |

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| **Proposition 65 - Carcinogens (>0.0%):** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. |

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| **Proposition 65 - Developmental Toxins (>0.0%):**  To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. |

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| **Proposition 65 - Female Repro Toxins (>0.0%):**  To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. |

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| **Proposition 65 - Male Repro Toxins (>0.0%):**  To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. |

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| **16. Other information** |

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| **SDS Revision Date** | 05/23/2017 |

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| The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders. |

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| The full text of the phrases appearing in section 3 is: |

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| H304 May be fatal if swallowed and enters airways. |

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| H315 Causes skin irritation. |

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| H319 Causes serious eye irritation. |

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| IMPORTANT NOTE: This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or any process. Final determination of suitability of any material is the sole responsibility of the user. |

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| End of Document |