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| **Isopropanol** | |
| **Activity** | Flat surface cleaning |
| **How substance will be used** | Substance to be mixed with water and applied with cloth or mop |
| **Area of use** | Site (various) |
| **Person supervising work** | Anthony Rose |
| **Accepted and approved by** | Anthony Rose |
| **Signature** |  |
| **Role** | Director |
| **Date** | 4/1/23 |

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| **Hazard Identification**  Please denote the properties of the substances used in the task (mark X as appropriate) | | | | | | | | | | |
| skull_web | **Toxic** | exclam_web | | **Irritant**  **X** | flamm_web | **Flammable**  **X** | | acid_web | | **Corrosive** |
| silhouete_web | **Sensitising**  **X** | explos_web | | **Explosive** | bottle_web | **Compressed Gas** | | Dead%20Fishy_web | | **Environmental Damage** |
| exclam_web | **Harmful**  **X** | rondflam_web(1) | | **Oxidizing** |  |  | |  | |  |
|  | | | | | | | | | | |
| **Substance(s) used in the task** | | | **Nature of hazard(s) associated with substance** | | | | **Route of**  **entry** | | **WEL** | |
| 2- Propanol 55-100% | | | Causes respiratory tract irritation  Breathing vapours may cause drowsiness and dizziness  Can enter lungs and cause damage  Causes eye irritation - burning sensation  May cause skin sensitisation by prolonged or repeated exposure  Prolonged or repeated contact causes defatting of the skin with irritation, dryness, and cracking | | | | Eyes  Mouth  Throat  Skin | | Maintain  minimal exposure at point of use.  UK: EH40.  Lt 400ppm, 999mg/m3.  St 500ppm, 1250mg/m3. | |

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| **Persons Exposed** | | | | | | | | | | | | | |
| Employees | Other workers | | | | Public / visitors | | | Young persons | | | | Total persons at risk | |
| **1+** | **0** | | | | **0** | | | **0** | | | | **1+** | |
| **Risk Matrix** | | | | | | | | | | | | | |
| Risk = Likelihood x Severity | | | | | | | | | | | | | |
| Low | | | | Medium | | | | | | High | | | |
|  | | | | | | | | | | | | | |
| **Initial risk rating without controls in place** | | | | | | | | | | | | | |
| **Hazard** | | | **Likelihood** | | | | **Severity** | | | | **Risk level** | | |
| **Skin: irritation** | | | 3 | | | | 4 | | | | 12 | | |
| **Eye contact** | | | 3 | | | | 5 | | | | 15 | | |
| **Ingestion** | | | 2 | | | | 5 | | | | 10 | | |
| **Inhalation** | | | 4 | | | | 5 | | | | 20 | | |
| **Controls** | | | | | | | | | | | | | |
| **Skin: irritation** | | | Wear chemical resistant overalls and chemical/solvent resistant gloves.  The skin should be throughly washed at the end of each work period. | | | | | | | | | | |
| **Eye contact** | | | Wear chemical resistant, close fitting safety glasses or goggles.  Wash hands after use. | | | | | | | | | | |
| **Ingestion** | | | Keep away from the mouth.  Wash hands after use. | | | | | | | | | | |
| **Inhalation** | | | Use in ventilated area and do not breath in directly.  Use chemical respirator with correct filter in restricted space. | | | | | | | | | | |
| **Risk rating with controls in place** | | | | | | | | | | | | | |
| **Hazard** | | | **Likelihood** | | | **Severity** | | | **Residual risk** | | | | **Acceptable** |
| **Skin: irritation** | | | 1 | | | 4 | | | 4 | | | | Yes |
| **Eye contact** | | | 1 | | | 5 | | | 5 | | | | Yes |
| **Ingestion** | | | 1 | | | 5 | | | 4 | | | | Yes |
| **Inhalation** | | | 1 | | | 5 | | | 5 | | | | Yes |
| **First aid requirements** | | | | | | | | | | | | | |
| **Exposure via** | | **First aid treatment** | | | | | | | | | | | |
| **Inhalation** | | * Immediately remove casualty to fresh air. * If breathing is difficult – give oxygen. * Seek medical assistance * In extreme cases start CPR, if required, and continue until professional assistance arrive - remove to A&E hospital. | | | | | | | | | | | |
| **Ingestion** | | * Do not induce vomiting. * If vomiting occurs, keep head low so that stomach content doesn’t get into the lungs. * Wash mouth out with water and drink plenty of water. * Seek medical assistance immediately. | | | | | | | | | | | |
| **Skin contact** | | * There may be irritation at the site of contact. * Remove all contaminated cloths & footwear immediately - unless stuck to skin. * Wash immediately with plenty of soap & water. * Seek medical assistance. | | | | | | | | | | | |
| **Eye contact** | | * Flush eyes including under both eyelids with water for at least 15 minutes. * There may be irritation and redness. * Seek medical assistance immediately (ophthalmologist). | | | | | | | | | | | |

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| **Emergency and disposal**  Detail the requirements to deal with accidental release and disposal of the substance. | |
| **Accidental release** | * Absorb spillage with inert material. * Use foam spray to reduce flammable vapours. * Remove all sources of ignition – use spark proof tools. * Clean surface thoroughly to remove residual contamination. |
| **Disposal** | * Transfer to a suitablecontainer. * Dispose of as controlled waste. |
| **Fire fighting** | * Cool containers with large quantities of water until well after fire is out. * Use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray. * Highly flammable liquid and vapour. * Do not breathe fumes - toxic fume/smoke emitted. * Fire-fighters to use self-contained breathing apparatus and full chemical protective clothing. |