

**Biomakespace COSHH Assessment**

Important: Please complete this after reading the [BMS15 Chemical Safety Policy](https://docs.google.com/document/d/1jqt7U67YcpqbM-yku7-O4V3EzZd7p3cp1H4lFuTk4Nk/edit#heading=h.pdre7kyhkn2a) and any other [relevant safety policies](https://drive.google.com/drive/folders/0B9V3tIqIu0UZdFRIdzBOWDE5OFk).

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| **Chemical**  *Or biological agent* | **Chemical risk and hazard categories (R-phrases) Hazard and Work Place Exposure Limits (WEL)** |
| Ethanol  Isopropanol | R: 11-20/21/22- 36//37/38-40  R: 11, 36, 67 |
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| **Control Measures** [*Fume Cupboard, glove box, safety cabinet, local exhaust ventilation*]  None | |
| **Flammables and explosives**  *Is there a substance used or formed that might give rise to a fire or explosion?* **Yes**/No  *If yes, list control measures.* Keep away from sources of ignition. Fire extinguisher is located next to the exit door. No flamework (e.g. Bunsen burner) should be carried out in the vicinity. Take measures to prevent the build-up of electrostatic charge.  *A more detailed risk assessment will be required if the lower explosive limit is reached during leak or spillage.* | |
| **Personal Protective Equipment** [*Lab coat/overalls, gloves, eye/hearing/respiratory protection*]  Gloves, lab coat, and safety goggles should be worn at all times. | |
| **Monitoring** [*Chemical, gas, oxygen depletion etc.*]  Not required | |
| **Health surveillance required** [*E.g. Carcinogen, mutagen, toxic to reproduction, sensitizer*]  Limited evidence of carcinogenic effect. | |
| **Storage**  Keep container tightly closed and in upright position. Do not store in the fridge or freezer (unless they are spark free). This applies to all ethanol-containing wash steps. Store in cool place. | |
| **Waste disposal** [*Contractor, chlorinated, non-chlorinated, non-hazardous aqueous, general waste*]  Less than 50 ml to drain. Larger volumes to non-chlorinated waste solvent bottle. | |
| **Emergency Procedure**  Follow emergency procedures as per BMS08 - Accident at Work Emergency Plan.  In the event of a fire, supply emergency services with chemicals register as necessary.  Small spills - soak up with tissues and leave in fume cupboard to evaporate. Large spills – use spill kit and dispose of pads as contaminated waste. Wear respiratory protection. Avoid breathing vapours. | |
| **First Aid**  Inhalation: remove to fresh air. Seek medical advice. If not breathing, give CPR. Do not use mouth-to-  mouth method if victim ingested or inhaled the substance  Skin: wash thoroughly. If irritation occurs seek medical advice  Eyes: flush with plenty of soap and water, and seek medical advice.  Ingestion: Rinse mouth with water and seek medical attention immediately. | |
| **Out of hours/lone working (any specific risks)**  No significant risks. | |

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| **Assessment Summary**  Keep both solvents away from sources of ignition. Keep containers tightly closed and in upright position. Avoid contact with eyes and skin. |