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 **COSHH Assessment Form**

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| This assessment ***only addresses the risk of harm to health*** from the substances listed. Additional risk assessments may be required to control the risk from other hazards associated with this work/the procedures used. |
| **Assessor** Paul Holroyd | **Employer/Supervisor**  |
| **Assessment Date 14-3-16** | **Dates reviewed** **March 2016** |
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| **HAZARDS IDENTIFIED**   |
| **Substance****Tip Top cement BC 3004*.***  | **Hazardous Properties***Cyclohexane. Ethyl acetate,* Zinc oxide, Colophonium | **Quantity** **18 Kg drums** |
| Eliminating the need to use hazardous substances, consider is it possible to avoid the need to use hazardous substances. | No. |  |
| **Additional information**Blue liquid. Odour fruity.Explosion limits: lower, 1.2 Vol%. Upper 11.5 Vol %When hardener added contains traces of isocyanates. Read and follow instructions in risk assessment. |
| **Emergency Procedures*** Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical treatment by eye specialist.
* Inhalation: Move to fresh air in case in case of accidental inhalation of vapours. Seek medical treatment immediately
* Skin contact Wash off with soap and plenty of water. Consult a doctor if skin irritation persists
* Ingestion: Do not induce vomiting. Summon a doctor immediately. Induce vomiting only upon the advice of a physician
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| **What will the chemical be used for?** *Adhesive used for cold bonding rubber.***Who may be exposed?**  Rubber Liners |

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| **METHODS OF PREVENTION OR CONTROL OF EXPOSURE** **Wear chemical resistant gloves.****Use eye protection.****Wear disposable overalls.****When entering confined space using Breathing apparatus (larger repairs or full relines). Air mover/ extractor must be used to control exposure to vapours. Air mover must have a flexible hose so vapours are released in to a safe area. (Outside building if possible).****Once solution is applied, a minimum of 30 minutes must be left before re-entry to vessel.****Before re-entering the vessel a gas test must be carried out by Ineos Gas tester to ensure area is safe to enter.****When mixed with hardener:*****Gas test prior to re-entry;*** ***Substances to be gas tested         Gastec Tubes                 WEL                25% value gas test limit*** *Cyclohexane                                Hexane 102L\*                        100 ppm        25ppm* *Ethyl Acetate                                Ethyl Acetate 141L\*                200ppm        50ppm* *\* 102L tubes vocab 37104610* *\* 141L tubes vocab 37LVO012 (on LVO system therefore need to be pre-ordered)* **For smaller repairs, (using ori nasal mask/half mask). Personal gas monitors will be worn to control exposure (BW GasAlert Max XTII).** **Air mover/ extractor must be used at all times. Air mover must have a flexible hose so vapours are released in to a safe area. (Outside building if possible).****Once solution is applied, a minimum of 30 minutes must be left before re-entry to vessel.****Change filters after every 15 minutes use.** |

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| **1. Engineering controls required**Firefighting make sure you have a fire extinguisher ready prior to use. Use foam, CO2 or dry chemical. Make sure you spill kit available prior to opening, open only in a well vented area.  | **2. Access control**Stand by man required if area is confined spaceMaximum 110v electric tools and lighting.EX lighting preferred. Type VL51-IP66&67EEx d IIB T6 ta 55’CEEx d IIB T5 ta 65’C |
| **3. Special procedures**Do not leave tins of adhesive in any confined space. Always use gas detection system.Air mover to be used at all times on entering vessel. | **4**. **Approved PPE**Air feed masks must be used for large repairs or full re line, ori nasal/ half mask for small areas.Filters: Sundstrom SR218 A2. (As advised).Coveralls, boots, helmet and gloves.Personal Gas monitors: BW GasAlert Max XT II |
| **Disposal Procedures**For any accidental release. Ensure adequate ventilation and use appropriate PPE, remove all sources of ignition. Soak up all spillages with inert absorbent material. (E.g. silica gel). Keep area clear of other personnel. Do not allow products to enter sewer or waterways. Inform site contact immediately of any spillages.Unused material to be taken from site and disposed of by YRL. |
| **TRAINING REQUIREMENTS**Confined space and BA trainedCCNSG safety passport.  |
| **HANDLING AND STORAGE REQUIREMENTS**Keep tins tightly closed, only open in good ventilation, use air moves if confined (vapours are heavier than air so ensure that no electrical equipment or any other sources of ignition are on the ground. Keep away from any heat of ignition sources. Keep away from any food, drink, waterways or life stock. |

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| **ASSESSMENT OF RISK USING CONTROLS DETAILED ABOVE**Always read risk assessment for job-in-hand, always read safety Date Sheets prior to use. Employees and managers to read and sign this form prior to use. |