








Safety Data Sheet*Risalah Data Keselamatan***Liquid Bridge Plug® (PART B - LTA)**

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| Date of Issue : 20.12.2018 <i>Tarikh diisukan</i> | Replaces : 21.12.2014 <i>Menggantikan</i> | Valid no longer than : 20.12.2022 <i>Sah sehingga</i> |
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| 1.0 | Chemical Product and Company Identification | |
| | <i>Produk Kimia dan Identifikasi Syarikat</i> | |
| 1.1 | Product identifier | |
| | <i>Tanda Identiti Produk</i> | |
| | Product Trade Name <i>Nama Produk Perdagangan</i> | Liquid Bridge Plug® PART B(LT INITIATOR) |
| | Product Code <i>Kod Produk</i> | Liquid Bridge Plug® PART B(LT INITIATOR) |
| | Other means of identification <i>Cara pengenalan lain</i> | N/A |
| 1.2 | Recommended use of the chemical and restriction on use | |
| | <i>Penggunaan kimia yang disyorkan dan sekatan penggunaan</i> | |
| | Application of the substance / the mixture <i>Aplikasi bahan / campuran</i> | Curing Agent <i>Agen pengawetan</i> |
| | Uses advised against <i>Penggunaan dinasihatkan supaya</i> | This product should not be used for other purposes than those specified without advised of expert <i>Produk ini tidak boleh digunakan untuk tujuan selain daripada yang dinyatakan tanpa dinasihatkan pakar</i> |
| 1.3 | Details of the supplier of the safety data sheet | |
| | <i>Perincian pembekal risalah data keselamatan</i> | |
| | Manufacturer/Supplier <i>Pengilang/Pembekal</i> | Well Engineering & Technology Sdn Bhd Level 10, Menara Weld No. 76 Jln Raja Chulan 50200 Kuala Lumpur |
| | Telephone number <i>Nombor telefon</i> | +603 2026 6787 |
| | Fax number <i>Nombor faks</i> | +603 2034 2199 |
| | Email address <i>Alamat emel</i> | welltech@welltechengineering.com www.welltechengineering.com |
| 1.4 | Emergency telephone number / <i>Nombor telefon kecemasan</i> | |
| | +6019 3566035/24hours | |

| 2.0 Hazards Identification | | | | | | | | | | | | | | | | | | | | |
|---|---|---|--|---------------------------------------|---|---|------------------|---|-------------------------|--|-------------|--------|--------------------------|---------------|------------------|---|-------------------------|--|-------------------------|---|
| <i>Pengenalan bahaya</i> | | | | | | | | | | | | | | | | | | | | |
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| Signal Word | Darger | | | | | | | | | | | | | | | | | | | |
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| | | <p>P302+P352 If on skin: Immediately remove contaminated clothing or shoes, wipe excess from skin and flush with plenty of water for at least 15minutes. Use soap if available or follow by washing with soap and water. Do not reuse clothing until thoroughly cleaned. Get medical attention. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed.</p> <p>P304: If inhaled: Remove victim to fresh air and provide oxygen if breathing is difficult. Get artificial respiration if not breathing. Get medical attention.</p> <p>P305: If in the eyes: Immediately flush eyes with plenty of water for at least 15 Minutes while holding eyelids open. Get medical attention.</p> <p>P501 Dispose of contents / container in accordance with national regulations.</p> | | | | | | |
| | <i>Kenyataan berjaga-jaga</i> | <p>P103: <i>Baca label sebelum digunakan.</i></p> <p>P262: <i>Jangan terkena pada mata, pada kulit atau pakaian.</i></p> <p>P301 + P310 <i>Jika tertelan: Jangan berikan cecair jika mangsa tidak sedarkan diri atau sangat mengantuk. Jika tidak, memberi tidak lebih daripada 2 gelas air dan mendorong muntah dengan memberi 30cc (2 sudu) sirap ipecac. Jika ipecac tidak ada, memberi 2 gelas air dan muntah dengan menyentuh jari untuk belakang tekak mangsa. Pastikan kepala mangsa di bawah pinggul manakala muntah. Dapatkan bantuan perubatan.</i></p> <p>P302 + P352 <i>Jika pada kulit: Segera tanggalkan pakaian atau kasut yang tercemar, lap berlebihan dari kulit dan siram dengan air yang banyak untuk sekurang-kurangnya 15minutes. Gunakan sabun jika ada atau mengikuti dengan membasuh dengan sabun dan air. Jangan guna semula pakaian sehingga dibersihkan secara menyeluruh. Dapatkan bantuan perubatan. Barang-barang kulit yang tercemar, termasuk kasut, tidak boleh menyuci dan harus dimusnahkan.</i></p> <p>P304: <i>Jika tersedut: Pindahkan mangsa ke udara bersih dan menyediakan oksigen jika sukar bernafas. Dapatkan bantuan pernafasan jika mangsa tidak bernafas. Dapatkan bantuan perubatan.</i></p> <p>P305: <i>Jika dalam mata: Serta merta siram mata dengan air yang banyak untuk sekurang-kurangnya 15 minit sambil membuka kelopak mata. Dapatkan bantuan perubatan.</i></p> <p>P501 <i>Lupuskan kandungan / bekas menurut peraturan negara.</i></p> | | | | | | |
| 2.3 | Classification system/ Sistem pengelasan | | | | | | | |
| | <p>NFPA ratings (scale 0 – 4)</p> <p><i>Penilaian NFPA (skala 0-4)</i></p> |  <p>Health /kesihatan = 3 Fire / kebakaran = 1 Reactivity /kereaktifan = 0</p> <p>HMIS-ratings (scale 0 – 4)</p> <table border="1"> <tr> <td>HEALTH <i>kesihatan</i></td> <td>3</td> </tr> <tr> <td>FIRE <i>kebakaran</i></td> <td>1</td> </tr> <tr> <td>REACTIVITY <i>kereaktifan</i></td> <td>0</td> </tr> </table> <p>Health = 1 Fire = 1 Reactivity = 0</p> | HEALTH <i>kesihatan</i> | 3 | FIRE <i>kebakaran</i> | 1 | REACTIVITY <i>kereaktifan</i> | 0 |
| HEALTH <i>kesihatan</i> | 3 | | | | | | | |
| FIRE <i>kebakaran</i> | 1 | | | | | | | |
| REACTIVITY <i>kereaktifan</i> | 0 | | | | | | | |

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| 2.4 | Other Hazards | Results of PBT and vPvB assessment PBT : Not applicable vPvB : Not applicable Note: The health effects noted below are consistent with requirements under the OSHA hazard communication standard (29 CFR 1910.1200). |
| | <i>Bahaya - bahaya lain</i> | <i>Keputusan penilaian PBT dan vPvB</i> <i>PBT : Tidak berkaitan</i> <i>vPvB : Tidak berkaitan</i> <i>Nota: kesan-kesan kesihatan yang dinyatakan di bawah adalah selaras dengan keperluan di bawah OSHA standard komunikasi bahaya (29 CFR 1910,1200).</i> |

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| 3.0 | Composition / Information on Ingredients | | | | | | | | | | | | | | | | | |
| | <i>Komposisi / Maklumat Bahan</i> | | | | | | | | | | | | | | | | | |
| 3.1 | Chemical characterization | Mixture | | | | | | | | | | | | | | | | |
| | <i>Ciri kimia</i> | <i>Campuran</i> | | | | | | | | | | | | | | | | |
| 3.2 | Description | N/A | | | | | | | | | | | | | | | | |
| | <i>Keterangan</i> | | | | | | | | | | | | | | | | | |
| 3.3 | Product group | Reaction product of bisphenol F and epichlorohydrin | | | | | | | | | | | | | | | | |
| | <i>Kumpulan produk</i> | <i>Produk reaksi bisphenol F dan epichlorohydrin</i> | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <td>Ingredient</td> <td>Proprietary Blend</td> </tr> <tr> <td><i>Ramuan</i></td> <td><i>Adunan propriet</i></td> </tr> <tr> <td>CAS number</td> <td>68479-98-1</td> </tr> <tr> <td><i>Number CAS</i></td> <td></td> </tr> <tr> <td>Content</td> <td>100</td> </tr> <tr> <td><i>Kandungan</i></td> <td></td> </tr> <tr> <td>Hazard</td> <td>See Below</td> </tr> <tr> <td><i>Bahaya</i></td> <td><i>Lihat bawah</i></td> </tr> </table> | Ingredient | Proprietary Blend | <i>Ramuan</i> | <i>Adunan propriet</i> | CAS number | 68479-98-1 | <i>Number CAS</i> | | Content | 100 | <i>Kandungan</i> | | Hazard | See Below | <i>Bahaya</i> | <i>Lihat bawah</i> |
| Ingredient | Proprietary Blend | | | | | | | | | | | | | | | | | |
| <i>Ramuan</i> | <i>Adunan propriet</i> | | | | | | | | | | | | | | | | | |
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| Content | 100 | | | | | | | | | | | | | | | | | |
| <i>Kandungan</i> | | | | | | | | | | | | | | | | | | |
| Hazard | See Below | | | | | | | | | | | | | | | | | |
| <i>Bahaya</i> | <i>Lihat bawah</i> | | | | | | | | | | | | | | | | | |
| 3.4 | SVHC | This product does not contain any substance of very High Concern (SVHC) on the European Chemicals Agency (ECHA) candidate list. | | | | | | | | | | | | | | | | |
| | | <i>Produk ini tidak mengandungi apa-apa bahan Prihatin yang sangat tinggi (SVHC) dalam senarai calon Agensi Bahan Kimia Eropah (ECHA).</i> | | | | | | | | | | | | | | | | |

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| 4.0 | First Aid Measures | |
| | <i>Langkah Pertolongan Cemas</i> | |
| 4.1 | <i>Description of First Aid Measures</i> | |
| | <i>Huraian berkenaan Langkah-langkah Pertolongan Cemas</i> | |
| | General Information | Work clothes should be washed separately at the end of each workday. Disposable clothing should be discarded, if contaminated with product. |
| | <i>Maklumat Umum</i> | <i>Pakaian kerja perlu dibasuh secara berasingan di akhir setiap hari kerja. Pakaian boleh guna tidak boleh digunakan, jika tercemar dengan produk.</i> |
| | After Inhalation | Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention. |
| | <i>Selepas Penyedutan</i> | <i>Pindahkan mangsa ke tempat udara segar dan menyediakan oksigen jika sukar bernafas. Berikan bantuan pernafasan jika mangsa tidak bernafas. Dapatkan bantuan perubatan.</i> |

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| | After Ingestion | <i>Do not give liquids if victim is unconscious or very drowsy. Otherwise, give no more than 2 glasses of water and induce vomiting by giving 30cc (2 tablespoons) syrup of ipecac. If ipecac is unavailable, give 2 glasses of water and induce vomiting by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. Get medical attention.</i> |
| | <i>Selepas Tertelan</i> | <i>Jangan paksa muntah. Secara umum, rawatan tidak diperlukan melainkan jika kuantiti yang besar produk ditelan. Walau bagaimanapun, dapatkan nasihat perubatan.</i> |
| | After Skin contact | Immediately remove contaminated clothing or shoes, wipe excess from skin and flush with plenty of water for at least 15 minutes. Use soap if available or follow by washing with soap and water. Do not reuse clothing until thoroughly cleaned. Get medical attention. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed. |
| | <i>Jika terkena kulit</i> | <i>Segera tanggalkan pakaian atau kasut yang tercemar, lap berlebihan dari kulit dan siram dengan air yang banyak untuk sekurang-kurangnya 15 minit. Gunakan sabun jika ada atau mengikuti dengan membasuh dengan sabun dan air. Jangan guna semula pakaian sehingga dibersihkan secara menyeluruh. Dapatkan bantuan perubatan. Barang-barang kulit yang tercemar, termasuk kasut, tidak boleh menyuci dan harus dimusnahkan.</i> |
| | After eye contact | Immediately flush eyes with plenty of water for at least 15 Minutes while holding eyelids open. Get medical attention. |
| | <i>Jika terkena mata</i> | <i>Serta merta siram mata dengan air yang banyak untuk sekurang-kurangnya 15 minit sambil membuka kelopak mata. Dapatkan bantuan perubatan.</i> |
| 4.2 | Most Important symptom and effect, both acute and delayed | Skin, eye and respiratory irritation skin sensitization, rashes, |
| | <i>Gejala yang paling penting dan kesan akut dan lewat</i> | <i>Kulit, mata dan kulit kerengsaan pernafasan pemakaian, ruam,</i> |
| 4.3 | Indication of immediate medical attention and special treatment needed | If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube. |
| | <i>Tanda-tanda bagi mendapatkan rawatan perubatan segera dan rawatan khas yang diperlukan</i> | <i>Jika gejala-gejala seperti kehilangan refleks lelucon, sawan atau tidak sedarkan diri berlaku sebelum emesis, pembersihan gastrik perlu dipertimbangkan berikutan intubasi dengan tiub endotracheal digari.</i> |
| 4.4 | Supplemental Health Information | Diethyltoluenediamine (DETDA) has caused an increased incidence of liver, thyroid and pituitary tumors in a 2 year study in rats dosed up to 70 PPM daily. The noel was 35 PPM. Pancreatic toxicity was also observed in this study. In a 90 day study in which rats were dosed up to 320 PPM, effects to the spleen, kidney, pancreas, liver, bone marrow, lymph system and thyroid occurred; primarily at the higher dose. Decreased body weight, early deaths, increased blood glucose and cataracts were also observed in this study. |
| | <i>Maklumat kesihatan tambahan</i> | <i>Diethyltoluenediamine (DETDA) menjadikan peningkatan insiden hati, tiroid dan pituitari tumor dalam kajian 2 tahun pada tikus dosed sehingga 70 PPM setiap hari. Noel adalah 35 PPM. Ketoksikan pankreas juga diperhatikan dalam kajian ini. Dalam satu kajian 90 hari di mana tikus telah dosed sehingga 320 PPM, kesan untuk limpa, buah pinggang, pankreas, hati, sum-sum tulang, sistem limfa dan tiroid berlaku; terutamanya pada dos yang lebih tinggi. Berat badan menurun, kematian awal, peningkatan glukosa darah dan</i> |

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| | | <i>katarak juga diperhatikan dalam kajian ini.</i> |
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| 5.0 | Fire Fighting Measures | |
| | <i>Langkah-Langkah Memadamkan Kebakaran</i> | |
| 5.1 | General Fire Hazard | May burn although not readily ignitable |
| | <i>Bahaya Kebakaran Umum</i> | <i>Boleh membakar walaupun tidak mudah terbakar</i> |
| 5.2 | Extinguishing media | |
| | <i>Media pemadam</i> | |
| | Suitable extinguishing agents | Use water FOG, "alcohol foam", dry chemical or CO2. |
| | <i>Agen pemadam yang sesuai</i> | <i>Gunakan FOG air, "buih alkohol", bahan kimia kering atau CO2.</i> |
| | Unsuitable extinguishing agents | Water or foam may cause frothing which can be violent, especially if sprayed into containers of hot or burning liquid. |
| | <i>Agen pemadam yang tidak sesuai</i> | <i>Air atau buih boleh menyebabkan berbuih yang boleh menjadi ganas, terutamanya jika disembur ke dalam bekas cecair panas atau terbakar.</i> |
| | Special hazards | Keep adjacent containers cool by spraying with water. |
| | <i>Bahaya khusus</i> | <i>Bekas bersebelahan sejuk dengan menyembur dengan air.</i> |
| | Other flammable properties | Containers exposed to intense heat from fires should be cooled with water to prevent vapour pressure build up which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure. |
| | <i>Ciri-ciri pembakaran lain</i> | <i>Bekas yang terdedah kepada haba yang sengit daripada kebakaran perlu disejukkan dengan air untuk mengelakkan tekanan wap membina yang boleh menyebabkan pecah bekas. Kawasan bekas terdedah kepada api hubungan langsung perlu disejukkan dengan air yang banyak yang perlu untuk mengelakkan kelemahan struktur bekas.</i> |
| | In case of fire, the following can be released | Nitrogen oxides and nitrogen containing organic compounds may be released upon combustion. |
| | <i>Jika berlaku kebakaran, yang berikut mungkin dilepaskan</i> | <i>Nitrogen oksida dan nitrogen yang mengandungi bahan organik bolehlah dilepaskan setelah pembakaran.</i> |
| | Protective equipment | Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. |
| | <i>Kelengkapan perlindungan</i> | <i>Jangan masukkan ruang api terkurung tanpa gear penuh bunker (topi keledar dengan pelindung muka, kot bunker, sarung tangan dan but getah), termasuk alat pernafasan NIOSH tekanan positif yang diluluskan serba lengkap.</i> |

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| 6.0 | Accidental Release Measures | |
| | <i>Langkah-Langkah Pembebasan Secara Tidak Sengaja</i> | |
| 6.1 | Personal precautions | Wear protective clothing identified in Section 8. Avoid contact with skin and eyes. Avoid inhalation for longer time. |
| | <i>Langkah perlindungan diri</i> | <i>Pakai pakaian perlindungan yang dikenal pasti dalam Seksyen 8. Elakkan bersentuh dengan kulit dan mata. Elakkan untuk masa yang lebih lama.</i> |
| 6.2 | Environmental precautions | Comprehensive environmental response, compensation and liability act. Under EPA-CERCLA ("Superfund") releases to air, land or water which exceed the reportable quantity must be reported to the national response center, 800-424-8802. Keep out of surface waters, sewers, |

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| | | and waterways entering or leading to surface waters. Notify authorities if any exposure to the general public or environment occurs are likely to occur. |
| | <i>Langkah perlindungan alam sekitar</i> | <i>Tindak balas alam sekitar yang komprehensif, pampasan dan bertindak liabiliti. Di bawah EPA-CERCLA ("Superfund") siaran ke udara, tanah atau air yang melebihi kuantiti yang dilaporkan hendaklah dilaporkan kepada pusat sambutan negara, 800-424-8802. Jauhkan dari air permukaan, parit, dan jalan air memasuki atau yang membawa kepada permukaan air. Maklumkan kepada pihak berkuasa jika ada pendedahan kepada persekitaran awam atau umum berlaku mungkin berlaku.</i> |
| 6.3 | Clean-up and disposal | Wear respirator and protective clothing as appropriate. Shut off source of leak if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage / salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; dispose of properly. Containers, even those that have been emptied, can contain hazardous product residues. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before reuse. Contaminated leather articles including shoes cannot be decontaminated and should be destroyed to prevent reuse. |
| | <i>Pembersihan dan pelupusan</i> | <i>Pakai alat pernafasan dan pakaian perlindungan yang bersesuaian. Menutup punca kebocoran jika selamat untuk berbuat demikian. Dike dan mengandungi. Buang dengan vakum atau pam ke kapal penyimpanan / penyelamatan. Menyerap sisa dengan penyerap seperti tanah liat, pasir atau bahan lain yang sesuai; melupuskan dengan betul. Bekas, walaupun orang-orang yang telah dikosongkan, mungkin mengandungi sisa produk berbahaya. Basuh dengan sabun dan air sebelum makan, minum, merokok, menggunakan kosmetik, atau menggunakan kemudahan tandas. Cuci pakaian yang tercemar sebelum digunakan semula. Barang-barang kulit yang tercemar termasuk kasut tidak boleh menyuci dan harus dimusnahkan untuk mengelakkan penggunaan semula.</i> |
| 6.4 | Reference to other section | See section 7 for safe handling See section 8 for personal protection See section 13 for disposal information |
| | <i>Rujukan ke bahagian lain</i> | <i>Lihat seksyen 7 untuk pengendalian selamat Lihat bahagian 8 untuk perlindungan diri Lihat Seksyen 13 untuk maklumat pelupusan</i> |

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| 7.0 | Handling and Storage | |
| | <i>Pengendalian dan Penyimpanan</i> | |
| 7.1 | <i>Handling</i> | |
| | <i>Pengendalian</i> | |
| 7.1.1 | Precaution for safe handling | Put on appropriate personal protective equipment (see section 8). Avoid contact with skin and eyes. Avoid generating or breathing dust. Use only in a well ventilated area. Wash thoroughly after handling. |
| | <i>Langkah berjaga-jaga untuk pengendalian selamat</i> | <i>Pakai kelengkapan perlindungan peribadi bersesuaian (Lihat Seksyen 8). Elakkan daripada terkena kulit dan mata. Elakkan menjana atau bernafas debu. Gunakan hanya di kawasan yang mempunyai pengudaraan yang baik. Basuh secukupnya selepas mengendalikannya.</i> |
| 7.12 | Precaution for safe storage | Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures. |
| | <i>Langkah berjaga-jaga untuk penyimpanan selamat</i> | <i>Simpan di tempat yang sejuk, kering dengan pengudaraan yang mencukupi. Jauhkan daripada nyalaan terbuka dan suhu yang tinggi.</i> |

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|-------------------------------------|--|--|-------------------------------------|---------------------------|----------------|------------|-------------------------------|-----|--------------------------|---|--------------------|----------------|-----------------|--|
| 8.0 | Exposure Controls / Personal Protection | | | | | | | | | | | | | |
| | <i>Kawalan Pendedahan / Perlindungan Diri</i> | | | | | | | | | | | | | |
| 8.1 | Control Parameter | | | | | | | | | | | | | |
| | <i>Kawalan Parameter</i> | | | | | | | | | | | | | |
| 8.1.1 | Occupational Exposure Limits | | | | | | | | | | | | | |
| | <i>Had pendedahan</i> | <table border="1"> <tr> <td>Ingredients <i>Ramuan</i></td> <td>Liquid Bridge Plug Part B</td> </tr> <tr> <td>CAS NO.</td> <td>68479-98-1</td> </tr> <tr> <td>Wt % <i>Jisim %</i></td> <td>100</td> </tr> <tr> <td>PEL TWA</td> <td rowspan="3">None established <i>Tiada ditubuhkan</i></td> </tr> <tr> <td>PEL CEILING</td> </tr> <tr> <td>TLV/TWA</td> </tr> <tr> <td>TLV/STEL</td> <td></td> </tr> </table> | Ingredients <i>Ramuan</i> | Liquid Bridge Plug Part B | CAS NO. | 68479-98-1 | Wt % <i>Jisim %</i> | 100 | PEL TWA | None established <i>Tiada ditubuhkan</i> | PEL CEILING | TLV/TWA | TLV/STEL | |
| Ingredients <i>Ramuan</i> | Liquid Bridge Plug Part B | | | | | | | | | | | | | |
| CAS NO. | 68479-98-1 | | | | | | | | | | | | | |
| Wt % <i>Jisim %</i> | 100 | | | | | | | | | | | | | |
| PEL TWA | None established <i>Tiada ditubuhkan</i> | | | | | | | | | | | | | |
| PEL CEILING | | | | | | | | | | | | | | |
| TLV/TWA | | | | | | | | | | | | | | |
| TLV/STEL | | | | | | | | | | | | | | |
| 8.2 | Appropriate Engineering Controls | Use appropriate engineering controls such as, exhaust ventilation and process enclosure, to ensure air contamination and keep workers exposure below the applicable limits. | | | | | | | | | | | | |
| | <i>Kesesuaian Kawalan Kejuruteraan</i> | <i>Gunakan kawalan kejuruteraan yang sesuai seperti, pengudaraan ekzos dan ruang proses tertutup, untuk memastikan pencemaran udara dan memastikan pendedahan pekerja di bawah had dikenakan.</i> | | | | | | | | | | | | |
| 8.4 | Personal protective equipment | | | | | | | | | | | | | |
| | <i>Peralatan pelindung diri</i> | | | | | | | | | | | | | |
| | Eye/Face protection | Wear chemical goggles if there is potential contact with eyes and a face-shield suitable to potential exposure. Eye wash station should be available. | | | | | | | | | | | | |
| | <i>Perlindungan Mata / Muka</i> | <i>Pakai gogal kimia jika terdapat potensi terkena mata dan perisai muka sesuai dengan pendedahan yang berpotensi. Mata stesen mencuci perlu ada.</i> | | | | | | | | | | | | |
| | Respiratory Protection | Use a NIOSH-approved respirator as required to prevent overexposure. In accord with 29 CFR 1910.134, use either a full-face, atmosphere-supplying respirator or an air-purifying respirator for organic vapors. | | | | | | | | | | | | |
| | <i>Perlindungan Pernafasan</i> | <i>Gunakan alat pernafasan NIOSH yang diluluskan seperti yang diperlukan untuk mengelakkan pendedahan berlebihan. Sesuai dengan 29 CFR 1910.134, menggunakan sama ada muka penuh, suasana-membekalkan alat pernafasan atau alat pernafasan menulen udara untuk wap organik.</i> | | | | | | | | | | | | |
| | Skin Protection | Avoid prolonged or repeated contact with skin. Wear chemical-resistant gloves and other clothing as required to minimize contact. | | | | | | | | | | | | |
| | <i>Perlindungan Kulit</i> | <i>Elakkan sentuhan yang berpanjangan atau berulang-ulang dengan kulit. Pakai sarung tangan tahan kimia dan pakaian lain yang diperlukan untuk meminimumkan kenalan.</i> | | | | | | | | | | | | |
| 8.5 | Protection of hands | Wear chemical-resistant protective clothing gloves, outer clothing or apron and overshoes Chemical resistant gloves recommended for prolonged or repeated contact | | | | | | | | | | | | |
| | <i>Perlindungan tangan</i> | <i>Pakai sarung tangan tahan kimia pelindung pakaian, pakaian luar atau apron dan overshoes sarung tangan tahan kimia disyorkan untuk sentuhan yang berpanjangan atau berulang-ulang</i> | | | | | | | | | | | | |

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| Protective Glove Symbol <i>Simbol Perlindungan Sarung Tangan</i> |  |
| Material of gloves | Any chemical resistant gloves |
| <i>Bahan sarung tangan</i> | <i>Sebarang sarung tangan tahan kimia</i> |
| Penetration time of glove materials | The exact break-through time has to be determined and observed by the manufacturer of protective gloves. |
| <i>Jangka masa penyerapan bahan sarung tangan</i> | <i>Yang tepat masa hebat dasar perlu ditentukan dan dipatuhi oleh pengeluar sarung tangan pelindung.</i> |

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| 9.0 | Physical & Chemical Properties | |
| | <i>Ciri – ciri Fizikal dan Kimia</i> | |
| 9.1 | Information on basic physical and chemical properties | |
| | <i>Maklumat tentang ciri fizik dan kimia</i> | |
| | General information | |
| | <i>Maklumat Am</i> | |
| | Appearance / Rupa : | |
| | | |
| | Physical state <i>Keadaan fizikal</i> | Liquid <i>Cecair</i> |
| | Form <i>Bentuk</i> | Liquid <i>Cecair</i> |
| | Color <i>Warna</i> | Clear <i>Jernih</i> |
| | Odor <i>Bau</i> | Pungent <i>Tengik</i> |
| | Vapour pressure (mmHg) <i>Tekanan wap (mmHg)</i> | 0.001 @ 20 ° C |
| | Relative density <i>Ketumpatan relatif</i> | S.G 1.104 @ 25° C |
| | Solubility (water) <i>Kelarutan (air)</i> | Slight <i>Sedikit</i> |
| | Partition coefficient : n-octanol/water <i>Pekali sekatan n-oktanol/air</i> | N/A |
| | Auto ignition temp. <i>Auto pencucuhan temp.</i> | N/A |
| | Decomposition temp. <i>Temp. penguraian</i> | N/A |
| | Viscosity <i>Kelikatan</i> | No data available <i>Tiada data tersedia</i> |
| | pH value <i>nilai pH</i> | N/A |
| | Boiling point <i>Takat didih</i> | 586 °F |
| | Melting point <i>Takah lebur</i> | N/A |
| | Flash point <i>Takat kilat</i> | 275° F |
| | Freezing point <i>Takat beku</i> | Will Crystallize but will not freeze <i>Akan terhablur tetapi tidak akan membekukan</i> |
| | Evaporation rate <i>Kadar penyejatan</i> | N/A |
| | Flammability (solid, gas) <i>Kebolehbakaran (pepejal,gas)</i> | N/A |
| | Explosion limit <i>Had letupan</i> | No data available <i>Tiada data tersedia</i> |
| | UEL | N/A |
| | LEL | N/A |
| | Vapour density (Air = 1) <i>Ketumpatan wap (Udara = 1)</i> | 6.20 |
| | Specific gravity (H2O = 1) <i>Graviti spesifik (air = 1)</i> | 1.02 |
| | Danger of explosion <i>Bahaya letupan</i> | No data available <i>Tiada data tersedia</i> |


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| 10.0 | Stability & Reactivity | |
| | <i>Kestabilan & Kereaktifan</i> | |
| 10.1 | <i>Reactivity</i> | N/A |
| | <i>Kereaktifan</i> | |
| 10.2 | <i>Chemical stability</i> | Stable |
| | <i>Kestabilan kimia</i> | <i>Stabil .</i> |
| 10.3 | <i>Thermal Decomposition/Condition to be avoided</i> | Nitrogen oxides, carbon monoxide and unidentified organic compounds may be formed during thermal or oxidative decomposition or combustion |
| | <i>Penguraian terma / Keadaan yang perlu dielakkan</i> | <i>Nitrogen oksida, karbon monoksida dan bahan organik yang tidak dikenali boleh dibentuk semasa penguraian haba atau oksidatif atau pembakaran.</i> |
| 10.4 | <i>Possibility of hazardous reaction</i> | Will not occur |
| | <i>Kemungkinan tindak balas berbahaya</i> | <i>Tidak akan berlaku</i> |
| 10.5 | <i>Condition to avoid</i> | Avoid heat, flame and contact with strong oxidizing agents, such as peroxides. |
| | <i>Keadaan yang perlu dielakkan</i> | <i>Mengelakkan panas, api dan hubungan dengan agen pengoksidaan yang kuat, seperti peroksida.</i> |
| 10.6 | <i>Incompatible material</i> | Strong Oxidizing agent such as peroxides. |
| | <i>Bahan Tidak Serasi</i> | <i>Agen pengoksidaan yang kuat seperti peroksida..</i> |

| 11.0 | Toxicological Information | | | | | | | | | |
|------------------|--|---|---------------|----------------------------------|----------------|-------------------|----------------|------------|------------------|--|
| | <i>Maklumat Toksikologi</i> | | | | | | | | | |
| 11.1 | Information on toxicological effects. | <p>Acute toxicity:</p> <table border="1" data-bbox="608 331 1423 584"> <tr> <td>Ingredients</td> <td>Liquid Bridge Plug Part B</td> </tr> <tr> <td>CAS No.</td> <td>68479-98-1</td> </tr> <tr> <td>Wt %</td> <td>100</td> </tr> <tr> <td>Acute data</td> <td>Oral LD50: >598mg/kg (rat); Dermal LD50: >1000mg/kg (rabbit), Inhalation LD50: No Data Available</td> </tr> </table> <p>Repeat-dose toxicity: Not Determined Dermal toxicity: Cause skin irritation Primary Irritant effect: Ingestion: Toxic if swallow Inhalation: Exposure to vapors or mists is possible, may cause irritation. May be toxic if inhaled On skin: Cause skin irritation. Maybe toxic if absorbed through skin. On the eyes: Maybe moderate to severely irritating to the eye Sensitization: may cause skin sensitization. Carcinogenicity: DETDA caused cancer and pancreatic toxicity in an oral rat study Mutagenicity: No ingredient is known to be mutagenic. . Other available toxicity data: Product Toxicological Information: Possible cancer hazard – thyroid, pituitary and liver. Possible pancreas toxin. May be toxic by ingestion, absorption or inhalation. May cause skin sensitization. Eye Irritant. May cause skin and respiratory tract irritation. Containers, even those that have been emptied, can contain hazardous product residues.</p> | Ingredients | Liquid Bridge Plug Part B | CAS No. | 68479-98-1 | Wt % | 100 | Acute data | Oral LD50: >598mg/kg (rat); Dermal LD50: >1000mg/kg (rabbit), Inhalation LD50: No Data Available |
| Ingredients | Liquid Bridge Plug Part B | | | | | | | | | |
| CAS No. | 68479-98-1 | | | | | | | | | |
| Wt % | 100 | | | | | | | | | |
| Acute data | Oral LD50: >598mg/kg (rat); Dermal LD50: >1000mg/kg (rabbit), Inhalation LD50: No Data Available | | | | | | | | | |
| | <i>Maklumat tentang kesan toksikologi.</i> | <p>Ketoksikan akut:</p> <table border="1" data-bbox="608 1234 1423 1487"> <tr> <td><i>Ramuan</i></td> <td><i>Liquid Bridge Plug Part B</i></td> </tr> <tr> <td><i>CAS No.</i></td> <td><i>68479-98-1</i></td> </tr> <tr> <td><i>Jisim %</i></td> <td><i>100</i></td> </tr> <tr> <td><i>Data akut</i></td> <td><i>Oral LD50: >598mg/kg (rat); Dermal LD50: >1000mg/kg (arnab) , Pernafasan LD50: Tiada data</i></td> </tr> </table> <p>Ketoksikan Ulang dos: Tidak Ditentukan Ketoksikan kulit: Punca kerengsaan kulit Kesan kerengsaan primer: Pengingesan: Toksik jika menelan Penyedutan: Pendedahan kepada wap atau kabus mungkin, boleh menyebabkan kerengsaan. Boleh jadi toksik jika disedut Pada kulit: Punca kerengsaan kulit. Mungkin toksik jika diserap melalui kulit. Pada mata: Mungkin sederhana kepada teruk merengsa kepada mata Pemekaan: boleh menyebabkan pemekaan kulit. Kekarsinogenan: DETDA menyebabkan kanser dan keracunan pankreas dalam kajian tikus lisan Kemutagenan: Tiada bahan dikenali sebagai mutagen. . Lain ketoksikan ada data: Produk Maklumat toksikologi: Mungkin bahaya kanser - tiroid, pituitari dan hati. Kemungkinan pankreas toksin. Boleh jadi toksik melalui pemakanan, penyerapan atau penyedutan. Boleh menyebabkan pemekaan kulit. Mata Merengsa. Boleh menyebabkan kulit dan salur pernafasan. Bekas, walaupun orang-orang yang telah dikosongkan, mungkin mengandungi sisa produk berbahaya.</p> | <i>Ramuan</i> | <i>Liquid Bridge Plug Part B</i> | <i>CAS No.</i> | <i>68479-98-1</i> | <i>Jisim %</i> | <i>100</i> | <i>Data akut</i> | <i>Oral LD50: >598mg/kg (rat); Dermal LD50: >1000mg/kg (arnab) , Pernafasan LD50: Tiada data</i> |
| <i>Ramuan</i> | <i>Liquid Bridge Plug Part B</i> | | | | | | | | | |
| <i>CAS No.</i> | <i>68479-98-1</i> | | | | | | | | | |
| <i>Jisim %</i> | <i>100</i> | | | | | | | | | |
| <i>Data akut</i> | <i>Oral LD50: >598mg/kg (rat); Dermal LD50: >1000mg/kg (arnab) , Pernafasan LD50: Tiada data</i> | | | | | | | | | |

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| 12.0 | Ecological Information | |
| | <i>Maklumat Ekologi</i> | |
| | | |
| 12.1 | Toxicity | Aquatic toxicity: N/A Product Ecotoxicity Data: Contact M & D Industries of Louisiana, INC E/A Department for available product ecotoxicity data. Bio accumulative potential: Not establish |
| | <i>Ketoksikan</i> | Ketoksikan akuatik: N/A Produk Ketoksikan Data: Cara M & D Industries of Louisiana, INC E / A Jabatan ada data Keekotoksikan produk. Bio berpotensi terkumpul: Tidak menubuhkan |
| | | |
| 12.2 | Result of PBT and VpVB assessment | PBT: Not Applicable vPvB: Not Applicable |
| | <i>Keputusan penilaian PBT dan vPvB</i> | PBT: Tidak Berkenaan vPvB: Tidak Berkenaan |

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| 13.0 | Disposal Considerations | |
| | <i>Pertimbangan Pembuangan</i> | |
| | | |
| 13.1 | Waste treatment method | |
| | <i>Kaedah rawatan sisa</i> | |
| | | |
| | Recommendation | Dike and contain. Remove with vacuum trucks or pump to storage / salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; dispose of properly. Flush area with water to remove trace residue. Place in an appropriate disposal facility in compliance with local regulations. |
| | <i>Syor</i> | <i>Daik dan mengandungi. Buang dengan vakum atau pam ke kapal penyimpanan / penyelamatan. Menyerap sisa dengan penyerap seperti tanah liat, pasir atau bahan lain yang sesuai; melupuskan dengan betul. Siram bersih kawasan tumpahan dengan air untuk membuang sisa surih. Meletakkan di kemudahan pelupusan yang sesuai dengan mematuhi peraturan tempatan.</i> |
| | | |
| 13.2 | Uncleaned packaging | |
| | <i>Pembungkusan yang tidak bersih</i> | |
| | | |
| | Recommendation | Containers, even those that have been emptied, can contain hazardous product residues. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before reuse. Contaminated leather articles including shoes cannot be decontaminated and should be destroyed to prevent reuse. |
| | <i>Cadangan</i> | <i>Bekas, walaupun orang-orang yang telah dikosongkan, mungkin mengandungi sisa produk berbahaya. Basuh dengan sabun dan air sebelum makan, minum, merokok, menggunakan kosmetik, atau menggunakan kemudahan tandas. Cuci pakaian yang tercemar sebelum digunakan semula. Barang-barang kulit yang tercemar termasuk kasut tidak boleh menyuci dan harus dimusnahkan untuk mengelakkan penggunaan semula.</i> |
| | | |
| | Recommended cleaning agent | N/A |
| | <i>Agen pembersihan yang disyorkan</i> | |

| | | |
|-------------|--|----------------------------|
| 14.0 | Transport Information | |
| | <i>Maklumat Pengangkutan</i> | |
| 14.1 | UN- Number | N/A |
| | <i>Nombor UN</i> | |
| 14.2 | UN proper shipping name | Not Regulated |
| | <i>Nama penghantaran UN yang betul</i> | <i>Tidak dikawal selia</i> |
| 14.3 | Transport hazard class(es) | Not Regulated |
| | <i>Kelas bahaya pengangkutan</i> | <i>Tidak dikawal selia</i> |
| 14.4 | Packing group DOT, TDG, IATA, IMO | Not Regulated |
| | <i>kumpulan Pembungkusan DOT, TDG, IATA, IMO</i> | <i>Tidak dikawal selia</i> |
| 14.5 | Environment Hazards | Not Regulated |
| | <i>Bahaya alam sekitar</i> | <i>Tidak dikawal selia</i> |
| 14.6 | Marine Pollutant | Not Regulated |
| | <i>Pencemaran marin</i> | <i>Tidak dikawal selia</i> |
| 14.7 | Special Precaution for User | N/A |
| | <i>Langkah berjaga-jaga untuk pengguna</i> | |
| 14.8 | Packaging Recommendation | N/A |
| | <i>Cadangan pembungkusan</i> | |

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| 15.0 | Regulatory Information | | | | | | | | |
| | <i>Maklumat Peraturan</i> | | | | | | | | |
| 15.1 | Safety, health and environmental regulations/legislation specific for the substance or mixture | | | | | | | | |
| | <i>Keselamatan, kesihatan dan persekitaran / undang-undang khusus untuk bahan atau campuran</i> | | | | | | | | |
| | <p>SARA 311/312 Hazard Categories: Delayed (chronic) Health hazard</p> <p>State Comments Proposition 65: This product contains chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 to cause cancer and/or reproductive toxicity. See table under U.S. Federal and State Regulations for the specific chemicals.</p> <table border="1"> <tr> <td>Ingredients</td> <td>Liquid Bridge Plug Part B</td> </tr> <tr> <td>CAS No.</td> <td>68479-98-1</td> </tr> <tr> <td>Wt %</td> <td>100</td> </tr> <tr> <td>Acute data</td> <td>Oral LD50: >598mg/kg (rat); Dermal LD50: >1000mg/kg (rabbit), Inhalation LD50: No Data Available</td> </tr> </table> <p>GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).</p> <p>Hazard pictograms</p>  <p>Signal word: Danger</p> <p>➤ Hazard-determining components of labeling: See above</p> <p>➤ Hazard statements Toxic if swallowed Causes skin irritation May cause skin allergic reaction Causes eye irritation May be toxic if inhaled May cause cancer Cause damaged to organ through prolonged and repeated exposure. May cause damaged to organ through prolonged or repeated exposure. May cause cancer (Eyes. Dermal (skin) contact. Inhalation)</p> <p>Precautionary statements Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>Wash thoroughly after handling.</p> <p>IF INHALED: Remove victim to fresh air and provide oxygen if breathing is difficult. Get artificial respiration if not breathing. Get medical attention.</p> <p>IF SWALLOWED: Do not give liquids if victim is unconscious or very drowsy. Otherwise, give no more than 2 glasses of water and induce vomiting by giving 30cc (2 tablespoons) syrup of ipecac. If ipecac is unavailable, give 2 glasses of water and induce vomiting by touching</p> | Ingredients | Liquid Bridge Plug Part B | CAS No. | 68479-98-1 | Wt % | 100 | Acute data | Oral LD50: >598mg/kg (rat); Dermal LD50: >1000mg/kg (rabbit), Inhalation LD50: No Data Available |
| Ingredients | Liquid Bridge Plug Part B | | | | | | | | |
| CAS No. | 68479-98-1 | | | | | | | | |
| Wt % | 100 | | | | | | | | |
| Acute data | Oral LD50: >598mg/kg (rat); Dermal LD50: >1000mg/kg (rabbit), Inhalation LD50: No Data Available | | | | | | | | |

finger to back of victim's throat. Keep victim's head below hips while vomiting. Get medical attention.

IF ON SKIN: Immediately remove contaminated clothing or shoes, wipe excess from skin and flush with plenty of water for at least 15 minutes. Use soap if available or follow by washing with soap and water. Do not reuse clothing until thoroughly cleaned. Get medical attention. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 Minutes while holding eyelids open. Get medical attention.
Wash contaminated clothing before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Dispose of contents/container in accordance with local/ regional/national/international regulations.

National Regulations:

Controlled Products Regulations Statement: This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

Negeri Comments

Saranan 65: Produk ini mengandungi bahan kimia (s) dianggap oleh Negeri Air Minuman Selamat California dan Akta Penguatkuasaan Toksik tahun 1986 hingga menyebabkan kanser dan / atau ketoksikan pembiakan. Lihat jadual di bawah Persekutuan Amerika Syarikat dan Peraturan Negeri bagi bahan kimia tertentu.

| | |
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| Ramuan | Liquid Bridge Plug Part B |
| CAS No. | 68479-98-1 |
| Jisim % | 100 |
| Data akut | Oral LD50: >598mg/kg (rat); Dermal LD50: >1000mg/kg (arnab) , Pernafasan LD50: Tiada data |

Unsur label GHS

Produk ini dikelaskan dan dilabelkan mengikut Terharmoni Global System (GHS).

Piktogram hazard



Kata isyarat: *Bahaya*

Pernyataan hazard

Toksik jika ditelan

Menyebabkan kerengsaan kulit

Boleh menyebabkan kulit reaksi alahan

Boleh menyebabkan kerengsaan mata

Boleh jadi toksik jika disedut

Boleh menyebabkan kanser

Punca rosak ke organ melalui pendedahan yang berpanjangan dan berulang.

Boleh menyebabkan rosak ke organ melalui pendedahan berpanjangan atau berulang.

Boleh menyebabkan kanser (Mata. Dermal (kulit) kenalan. Penyedutan)

Pernyataan langkah

o Pakai sarung tangan / pakaian pelindung / pelindung mata perlindungan / muka.

Basuh secukupnya selepas mengendalikannya.

JIKA TERSEDUT: Pindahkan mangsa ke udara bersih dan menyediakan oksigen jika sukar bernafas. Dapatkan bantuan pernafasan jika mangsa tidak bernafas. Dapatkan bantuan perubatan.

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| <p><i>JIKA TERTELAN: Jangan berikan cecair jika mangsa tidak sedarkan diri atau sangat mengantuk. Jika tidak, memberi tidak lebih daripada 2 gelas air dan mendorong muntah dengan memberi 30cc (2 sudu) sirap ipecac. Jika ipecac tidak ada, memberi 2 gelas air dan muntah dengan menyentuh jari untuk belakang tekak mangsa. Pastikan kepala mangsa di bawah pinggul manakala muntah. Dapatkan bantuan perubatan.</i></p> <p><i>JIKA KULIT: Segera tanggalkan pakaian atau kasut yang tercemar, lap berlebihan dari kulit dan siram dengan air yang banyak untuk sekurang-kurangnya 15 minit. Gunakan sabun jika ada atau mengikuti dengan membasuh dengan sabun dan air. Jangan guna semula pakaian sehingga dibersihkan secara menyeluruh. Dapatkan bantuan perubatan. Barang-barang kulit yang tercemar, termasuk kasut, tidak boleh menyuci dan harus dimusnahkan.</i></p> <p><i>JIKA MATA: Serta merta siram mata dengan air yang banyak untuk sekurang-kurangnya 15 minit sambil membuka kelopak mata. Dapatkan bantuan perubatan. Basuh pakaian tercemar sebelum digunakan semula.</i></p> <p><i>Jika kerengsaan kulit atau ruam: Dapatkan nasihat / rawatan perubatan. Menguruskan bahan / bekal menurut peraturan antarabangsa / tempatan / kawasan / negara.</i></p> <p>□ Peraturan Negara: <i>Seksyen 313 (Tajuk III Pindaan Superfund dan Akta Reauthorization): Produk ini tidak mengandungi sebarang bahan kimia tertakluk kepada keperluan laporan Seksyen 313 Tajuk III Pindaan Superfund dan Reauthorization Act of 1986 dan 40 CFR Bahagian 372.</i></p> |
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| 16.0 | Other Information | |
| | <i>Maklumat Lain</i> | |
| | | |
| | Revision comments | 12 th update |
| | <i>Komen Revisi</i> | <i>Kemaskini 12</i> |
| | | |
| | Revision date | 20 December 2018 |
| | <i>Tarikh revisi</i> | <i>20 Desember 2018</i> |
| | | |
| | Revision no | 12 |
| | <i>No. revisi</i> | |
| | | |
| | Disclaimer | All the recommendations and suggestions herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for this own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by M&D Industries of Louisiana, Inc. As to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does M&D Industries of Louisiana, Inc. Assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations. |
| | <i>Penafian</i> | <i>Semua cadangan dan cadangan yang terkandung di sini mengenai produk kami adalah berdasarkan kepada ujian dan data yang boleh dipercayai. Walau bagaimanapun, adalah menjadi tanggungjawab pengguna untuk memastikan keselamatan, keracunan dan kesesuaian untuk kegunaan ini sendiri produk yang dinyatakan di sini. Sejak penggunaan sebenar oleh orang lain adalah di luar kawalan kami, ada jaminan, tersurat atau tersirat, dibuat oleh M & D Industries of Louisiana, Inc. Adapun kesan-kesan penggunaan sedemikian, hasil-hasil yang diperolehi, atau keselamatan dan ketoksikan produk juga tidak M & D Industries of Louisiana, Inc. Andaikan apa-apa liabiliti yang timbul daripada penggunaan oleh orang lain. Nor adalah maklumat yang terkandung di sini dianggap sebagai benar-benar lengkap kerana maklumat tambahan yang perlu atau wajar apabila keadaan atau hal keadaan tertentu atau luar biasa wujud atau kerana undang-undang atau peraturan-peraturan kerajaan.</i> |

