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www.zywyn.com

August 1, 2012

Guarantee of Information Disclosure Requirements for Substances of Very High Concern (SVHC) under EU REACH (Registration, Evaluation, Authorization of Chemicals)

To Our Valued Customers:

Zywyn Corporation hereby warrants and guarantees that all of our GREEN products, made for or delivered to your company directly or indirectly by our company and the manufacturing processing flow, are free from the specific substances in IC products that are compliant to the latest 86 REACH SVHC requirements as stated below:

| No | SVHC Substance Name | CAS No. | EC No. |
|----|---|--------------------------|--|
| 1 | Anthracene | 120-12-7 | 204-371-1 |
| 2 | 4,4'- Diaminodiphenylmethane (MDA) | 101-77-9 | 202-974-4 |
| 3 | Dibutyl phthalate (DBP) | 84-74-2 | 201-557-4 |
| 4 | Benzyl butyl phthalate (BBP) | 85-68-7 | 201-622-7 |
| 5 | Bis (2-ethyl(hexyl)phthalate)(DEHP) | 117-81-7 | 204-211-0 |
| 6 | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) | 81-15-2 | 201-329-4 |
| 7 | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α – HBCDD, β -HBCDD, γ-HBCDD) | 25637-99-4 | 247-148-4 and 221-695-9 (134237-50-6, 134237-51-7,134237-52-8) |
| 8 | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 85535-84-8 | 287-476-5 |
| 9 | Bis(tributyltin)oxide | 56-35-9 | 200-268-0 |
| 10 | Cobalt dichloride | 7646-79-9 | 231-589-4 |
| 11 | Diarsenic pentaoxide | 1303-28-2 | 215-116-9 |
| 12 | Diarsenic trioxide | 1327-53-3 | 215-481-4 |
| 13 | Triethyl arsenate | 15606-95-8 | 427-700-2 |
| 14 | Lead hydrogen arsenate | 7784-40-9 | 232-064-2 |
| 15 | Sodium dichromate | 7789-12-0 10588-01-09 | 234-190-3 |
| 16 | Anthracene oil | 90640-80-5 | 292-602-7 |
| 17 | Anthracene oil, anthracene paste, distn. Lights | 91995-17-4 | 295-278-5 |
| 18 | Anthracene oil, anthracene paste, anthracene fraction | 91995-15-2 | 295-275-9 |
| 19 | Anthracene oil, anthracene-low | 90640-82-7 | 292-604-8 |
| 20 | Anthracene oil, anthracene paste | 90640-81-6 | 292-603-2 |
| 21 | Pitch, coal tar, high-temp. | 65996-93-2 | 266-028-2 |
| 22 | Aluminosilicate, Refractory Ceramic Fibres | 142844-006 | 650-017-00-8 |
| 23 | Zirconia Aluminosilicate, Refractory Ceramic | - | 650-017-00-8 |
| 24 | Diisobutyl phthalate(DIBP) | 84-69-5 | 201-553-2 |
| 25 | 2,4-Dinitrotoluene | 121-14-2 | 204-450-0 |
| 26 | Tris(2-chloroethyl) phosphate | 115-96-8 | 204-118-5 |
| 27 | Lead chromate | 7758-97-6 | 231-846-0 |
| 28 | Lead chromate molybdate sulphate red | 12656-85-8 | 235-759-9 |
| 29 | Lead sulfochromate yellow | 1344-37-2 | 215-693-7 |
| | | | |

| Acrylamide | No | SVHC Substance Name | CAS No. | EC No. |
|--|----|---|------------|-----------|
| Ammonium dichromate 7789-09-5 232-143-1 Potassium dichromate 7778-09-6 231-906-6 Potassium chromate 7789-00-6 232-140-5 Potassium chromate 7789-00-6 232-140-5 Potassium chromate 7789-00-6 232-140-5 Boric acid 10043-35-3 234-343-4 11113-50-1 233-139-2 35 Boric acid 1303-96-4 233-139-2 36 disodium tetraborate, anhydrous 1303-94-3 215-540-4 1279-04-3 225-541-3 235-541-3 37 Tetraboron disodium heptaoxide, hydrate 1226-773-1 235-541-3 38 Trichloroethylene 79-01-6 201-167-4 39 Cobalt(II) sulphate 10124-43-3 233-334-2 40 Cobalt(II) dinitrate 10141-05-6 233-402-1 41 Cobalt(II) darbonate 513-79-1 208-169-4 42 Cobalt(II) darbonate 513-79-1 208-169-4 43 2-Methoxyethanol 109-86-4 203-713-7 44 2-Ethoxyethanol 109-86-4 203-713-7 45 Chromic acid 1333-82-0 215-607-8 46 Oligomers of chromic acid and dichromic acid 13530-68-2 233-801-5 47 2-ethoxyethylacetate 111-15-9 203-839-2 48 Strontium chromate 7789-06-2 232-142-6 49 1,2-Benzenedicarboxylic acid, et-C7-11 branched and linear alkyl 50 Hydrazine 7803-57-8 206-114-9 51 1-methyl-2-pyrrolidone 872-50-4 212-828-1 52 Potassiumhydroxyoctaoxodizncatedi-chromate 111-36-6 206-114-9 54 Dichromium tris(chromate) 788-89-6 276-158-1 55 Potassiumhydroxyoctaoxodizncatedi-chromate 1110-36-9 234-339-8 56 Pentazinc chromate octahydroxide 49663-84-5 256-418-0 57 Aluminosilicate Refractory Ceramic Fibres (RCF) 59 Formaldehyde, oligomeric reactoryoproducts with aniline 25214-70-4 500-036-1 50 Bis(2-methoxyethyl) phthalate 117-82-8 204-212-6 61 2-Methoxyanuline;0-Anisidine 90-04-0 201-963-1 62 4-(1,1,3,3-ternahylbutyl)phenol,(4-tert-Octylphenol) 140-66-9 205-426-2 63 1,2-Dichloroethane 107-06-2 203-458-1 | 30 | Acrylamide | 79-06-1 | 201-173-7 |
| Potassium dichromate | 31 | Sodium chromate | 7775-11-3 | 231-889-5 |
| Potassium chromate 7789-00-6 232-140-5 | 32 | Ammonium dichromate | 7789-09-5 | 232-143-1 |
| Boric acid 10043-35-3; 234-343-4 233-139-2 333-96-4 3303-96-5 3303-96-5 33 | 33 | Potassium dichromate | 7778-50-9 | 231-906-6 |
| Boric acid 11113-50-1 233-139-2 330-396-4 1303-96-4 12179-04-3 215-540-4 12179-04-3 215-540-4 12179-04-3 215-540-4 12179-04-3 215-540-4 12179-04-3 215-540-4 12179-04-3 235-541-3 38 Trichloroethylene 79-01-6 201-167-4 39 Cobalt(II) sulphate 10124-43-3 233-334-2 40 Cobalt(II) dinitrate 10141-05-6 233-402-1 41 Cobalt(II) diacetate 71-48-7 208-169-4 42 Cobalt(II) diacetate 71-48-7 200-755-8 43 2-Methoxyethanol 109-86-4 203-713-7 44 2-Ethoxyethanol 110-80-5 203-804-1 45 Chromium trioxide 1333-82-0 215-607-8 46 Oligomers of chromic acid, Oligomers of chromic acid, Oligomers of chromic acid and dichromic acid, 1530-68-2 238-881-5 236-881-5 2 | 34 | Potassium chromate | 7789-00-6 | 232-140-5 |
| disodium tetraborate, anhydrous | 35 | Boric acid | | |
| 38 | 36 | disodium tetraborate, anhydrous | 1330-43-4 | 215-540-4 |
| 39 Cobalt(II) sulphate 10124-43-3 233-334-2 40 Cobalt(II) dinitrate 10141-05-6 233-402-1 41 Cobalt(II) diacetate 513-79-1 208-169-4 42 Cobalt(II) diacetate 71-48-7 200-755-8 43 2-Methoxyethanol 109-86-4 203-713-7 44 2-Ethoxyethanol 110-80-5 203-804-1 45 Chromium trioxide 1333-82-0 215-607-8 Chromic acid 7738-94-5 231-801-5 46 Oligomers of chromic acid and dichromic acid, Dichromic acid 7738-94-5 231-801-5 47 2-ethoxyethylacetate 111-15-9 203-839-2 48 Strontium chromate 7789-06-2 232-142-6 49 1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP) 68515-42-4 271-084-6 50 Hydrazine 7803-57-8 206-114-9 51 1-methyl-2-pyrrolidone 872-50-4 212-828-1 52 1,2,3-trichloropropane 96-18-4 202-486-1 53 | 37 | Tetraboron disodium heptaoxide, hydrate | 12267-73-1 | 235-541-3 |
| 40 Cobalt(II) dinitrate 10141-05-6 233-402-1 41 Cobalt(II) diacetate 513-79-1 208-169-4 42 Cobalt(II) diacetate 71-48-7 200-755-8 43 2-Methoxyethanol 109-86-4 203-713-7 44 2-Ethoxyethanol 110-80-5 203-804-1 45 Chromium trioxide 1333-82-0 215-607-8 Chromic acid, 7738-94-5 231-801-5 46 Dichromic acid and dichromic acid, 7738-94-5 231-801-5 47 2-ethoxyethylacetate 111-15-9 203-839-2 48 Strontium chromate 7789-06-2 232-142-6 49 1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP) 68515-42-4 271-084-6 50 Hydrazine 7803-57-8 206-114-9 51 1-methyl-2-pyrrolidone 872-50-4 212-828-1 52 1,2,3-trichloropropane 96-18-4 202-486-1 53 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-irich (DIHP) 71888-89-6 276-158-1 | 38 | Trichloroethylene | 79-01-6 | 201-167-4 |
| 41 Cobalt(II) carbonate 513-79-1 208-169-4 42 Cobalt(II) diacetate 71-48-7 200-755-8 43 2-Methoxyethanol 109-86-4 203-713-7 44 2-Ethoxyethanol 110-80-5 203-804-1 45 Chromic acid, 110-80-5 203-804-1 46 Oligomers of chromic acid and dichromic acid, 1333-82-0 215-607-8 46 Oligomers of chromic acid and dichromic acid, 13530-68-2 236-881-5 47 2-ethoxyethylacetate 111-15-9 203-839-2 48 Strontium chromate 7789-06-2 232-142-6 49 1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alklyl esters (DHNUP) 50 Hydrazine 7803-57-8 302-01-2 206-114-9 51 1-methyl-2-pyrrolidone 872-50-4 212-828-1 52 1,2-3-trichloropropane 96-18-4 202-486-1 53 1,2-benzenedicarboxylic acid, di-C6-8-branched alklyl esters, C7-rich (DIHP) 54 Dichromium tris(chromate) 24613-89-6 276-158-1 55 Potassiumhydroxyoctaoxodizncatedi-chromate 11103-86-9 234-329-8 56 Pentazinc chromate octahydroxide 49663-84-5 256-418-0 57 Aluminosilicate Refractory Ceramic Fibres (RCF) 58 Zirconia Aluminosilicate Refractory Ceramic Fibres (RCF) 59 Formaldehyde, oligomeric reaction products with aniline (tehcnicalMDA) 60 Bis(2-methoxyethyl) phthalate 117-82-8 204-212-6 61 2-Methoxyanuline; o-Anisidine 90-04-0 201-963-1 62 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol) 140-66-9 205-426-2 63 1,2-Dichloroethane 107-06-2 203-458-1 64 Bis(2-methoxyethyl) ether 111-96-6 203-924-4 | 39 | Cobalt(II) sulphate | 10124-43-3 | 233-334-2 |
| 42 Cobalt(II) diacetate 71-48-7 200-755-8 43 2-Methoxyethanol 109-86-4 203-713-7 44 2-Ethoxyethanol 110-80-5 203-804-1 45 Chromic acid, Oligomers of chronic acid and dichromic acid, Dichronic acid 7738-94-5 231-801-5 46 Oligomers of chronic acid and dichromic acid, Dichronic acid 7738-94-5 236-881-5 47 2-ethoxyethylacetate 111-15-9 203-839-2 48 Strontium chromate 7789-06-2 232-142-6 49 1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters, CDHNUP) 68515-42-4 271-084-6 50 Hydrazine 302-01-2 206-114-9 51 1-methyl-2-pyrrolidone 872-50-4 212-828-1 52 1,2,3-trichloropropane 96-18-4 202-486-1 53 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) 71888-89-6 276-158-1 54 Dichromium tris(chromate) 24613-89-6 246-356-2 55 Potassiumhydroxyoctaoxodizncatedi-chromate 1110-86-9 234-329-8 <td>40</td> <td>Cobalt(II) dinitrate</td> <td>10141-05-6</td> <td>233-402-1</td> | 40 | Cobalt(II) dinitrate | 10141-05-6 | 233-402-1 |
| 2-Ethoxyethanol 109-86-4 203-713-7 44 2-Ethoxyethanol 110-80-5 203-804-1 45 Chromium trioxide 1333-82-0 215-607-8 Chromic acid, 7738-94-5 231-801-5 13630-68-2 233-881-5 47 2-ethoxyethylacetate 111-15-9 203-839-2 48 Strontium chromate 7789-06-2 232-142-6 49 1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP) 50 Hydrazine 7803-57-8 302-01-2 51 1-methyl-2-pyrrolidone 872-50-4 212-828-1 52 1,2,3-trichloropropane 96-18-4 202-486-1 53 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) 54 Dichromium tris(chromate) 24613-89-6 246-356-2 55 Potassiumhydroxyoctaoxodizncatedi-chromate 11103-86-9 234-329-8 56 Pentazinc chromate octahydroxide 49663-84-5 256-418-0 57 Aluminosilicate Refractory Ceramic Fibres (RCF) 58 Zirconia Aluminosilicate Refractory Ceramic Fibres (ZF-RCF) 59 Formaldehyde, oligomeric reactionproducts with aniline (tehcnicalMDA) 60 Bis(2-methoxyethyl) phthalate 117-82-8 204-212-6 61 2-Methoxyanuline;o-Anisidine 90-04-0 201-963-1 62 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol) 140-66-9 205-426-2 63 1,2-Dichloroethane 107-06-2 203-458-1 64 Bis(2-methoxyethyl) ether 111-96-6 203-924-4 | 41 | Cobalt(II) carbonate | 513-79-1 | 208-169-4 |
| 2-Ethoxyethanol 110-80-5 203-804-1 | 42 | Cobalt(II) diacetate | 71-48-7 | 200-755-8 |
| 45 Chromium trioxide 1333-82-0 215-607-8 46 Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid 7738-94-5, 13530-68-2 231-801-5, 236-881-5 47 2-ethoxyethylacetate 111-15-9 203-839-2 48 Strontium chromate 7789-06-2 232-142-6 49 1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP) 68515-42-4 271-084-6 50 Hydrazine 7803-57-8, 302-01-2 206-114-9 51 1-methyl-2-pyrrolidone 872-50-4 212-828-1 52 1,2,3-trichloropropane 96-18-4 202-486-1 53 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) 71888-89-6 276-158-1 54 Dichromium tris(chromate) 24613-89-6 246-356-2 55 Potassiumhydroxyoctaoxodizncatedi-chromate 11103-86-9 234-329-8 56 Pentazinc chromate octahydroxide 49663-84-5 256-418-0 57 Aluminosilicate Refractory Ceramic Fibres (RCF) 2 58 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) 50 | 43 | 2-Methoxyethanol | 109-86-4 | 203-713-7 |
| Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid and dichromic acid, 13530-68-2 236-881-5 236-881- | 44 | 2-Ethoxyethanol | 110-80-5 | 203-804-1 |
| 46 Oligomers of chromic acid and dichromic acid, Dichromic acid 1736-34-3 (236-881-5) 236-881-5 266-114-9 236-881-5 266-114-9 236-81-5 236-114-9 236-114-9 237-12-82-1 236-114-9 237-12-82-1 236-114-9 236-114-9 236-114-9 236-114-9 236-114-9 236-114-9 236-118-1 236-118-1 236-118-1 236-118-1 236-118-1 236-118-1 236-118-1 236-118-1 236-118-1 236-118-1 236-118-1 236-118-1 236-118-1 236-118-1 236-118-1 236-118-1 236-118-1 | 45 | Chromium trioxide | 1333-82-0 | 215-607-8 |
| 48 Strontium chromate 7789-06-2 232-142-6 49 1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP) 68515-42-4 271-084-6 50 Hydrazine 7803-57-8 302-01-2 206-114-9 51 1-methyl-2-pyrrolidone 872-50-4 212-828-1 52 1,2,3-trichloropropane 96-18-4 202-486-1 53 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) 71888-89-6 276-158-1 54 Dichromium tris(chromate) 24613-89-6 246-356-2 55 Potassiumhydroxyoctaoxodizncatedi-chromate 11103-86-9 234-329-8 56 Pentazinc chromate octahydroxide 49663-84-5 256-418-0 57 Aluminosilicate Refractory Ceramic Fibres (RCF) 58 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) 59 Formaldehyde, oligomeric reactionproducts with aniline (tehcnicalMDA) 25214-70-4 500-036-1 60 Bis(2-methoxyethyl) phthalate 117-82-8 204-212-6 61 2-Methoxyanuline;o-Anisidine 90-04-0 201-963-1 62 4-(1,1,3,3- | 46 | Oligomers of chromic acid and dichromic acid, | | |
| 49 1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP) 68515-42-4 271-084-6 50 Hydrazine 7803-57-8 302-01-2 302-01-2 206-114-9 51 1-methyl-2-pyrrolidone 872-50-4 212-828-1 52 1,2,3-trichloropropane 96-18-4 202-486-1 53 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) 71888-89-6 276-158-1 54 Dichromium tris(chromate) 24613-89-6 246-356-2 55 Potassiumhydroxyoctaoxodizncatedi-chromate 11103-86-9 234-329-8 56 Pentazinc chromate octahydroxide 49663-84-5 256-418-0 57 Aluminosilicate Refractory Ceramic Fibres (RCF) 2 58 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) 5 59 Formaldehyde, oligomeric reactionproducts with aniline (tehcnicalMDA) 25214-70-4 500-036-1 60 Bis(2-methoxyethyl) phthalate 117-82-8 204-212-6 61 2-Methoxyanuline;o-Anisidine 90-04-0 201-963-1 62 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) 1 | 47 | 2-ethoxyethylacetate | 111-15-9 | 203-839-2 |
| Sesters (DHNUP) | 48 | Strontium chromate | 7789-06-2 | 232-142-6 |
| 50 Hydrazine 302-01-2 206-114-9 51 1-methyl-2-pyrrolidone 872-50-4 212-828-1 52 1,2,3-trichloropropane 96-18-4 202-486-1 53 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) 71888-89-6 276-158-1 54 Dichromium tris(chromate) 24613-89-6 246-356-2 55 Potassiumhydroxyoctaoxodizncatedi-chromate 11103-86-9 234-329-8 56 Pentazinc chromate octahydroxide 49663-84-5 256-418-0 57 Aluminosilicate Refractory Ceramic Fibres (RCF) 25214-70-4 500-036-1 58 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) 25214-70-4 500-036-1 60 Bis(2-methoxyethyl) phthalate 117-82-8 204-212-6 61 2-Methoxyanuline;o-Anisidine 90-04-0 201-963-1 62 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) 140-66-9 205-426-2 63 1,2-Dichloroethane 107-06-2 203-458-1 64 Bis(2-methoxyethyl) ether 111-96-6 203-924-4 <td>49</td> <td>1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)</td> <td></td> <td>271-084-6</td> | 49 | 1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP) | | 271-084-6 |
| 52 1,2,3-trichloropropane 96-18-4 202-486-1 53 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) 71888-89-6 276-158-1 54 Dichromium tris(chromate) 24613-89-6 246-356-2 55 Potassiumhydroxyoctaoxodizncatedi-chromate 11103-86-9 234-329-8 56 Pentazinc chromate octahydroxide 49663-84-5 256-418-0 57 Aluminosilicate Refractory Ceramic Fibres (RCF) 58 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) 59 Formaldehyde, oligomeric reaction products with aniline (tehcnical MDA) 25214-70-4 500-036-1 60 Bis(2-methoxyethyl) phthalate 117-82-8 204-212-6 61 2-Methoxyanuline;o-Anisidine 90-04-0 201-963-1 62 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) 140-66-9 205-426-2 63 1,2-Dichloroethane 107-06-2 203-458-1 64 Bis(2-methoxyethyl) ether 111-96-6 203-924-4 | 50 | Hydrazine | | 206-114-9 |
| 53 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) 71888-89-6 276-158-1 54 Dichromium tris(chromate) 24613-89-6 246-356-2 55 Potassiumhydroxyoctaoxodizncatedi-chromate 11103-86-9 234-329-8 56 Pentazinc chromate octahydroxide 49663-84-5 256-418-0 57 Aluminosilicate Refractory CeramicFibres (RCF) 25214-70-4 500-036-1 59 Formaldehyde,oligomeric reactionproducts with aniline (tehcnicalMDA) 25214-70-4 500-036-1 60 Bis(2-methoxyethyl) phthalate 117-82-8 204-212-6 61 2-Methoxyanuline;o-Anisidine 90-04-0 201-963-1 62 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) 140-66-9 205-426-2 63 1,2-Dichloroethane 107-06-2 203-458-1 64 Bis(2-methoxyethyl) ether 111-96-6 203-924-4 | 51 | 1-methyl-2-pyrrolidone | 872-50-4 | 212-828-1 |
| 53 C7-rich (DIHP) 71888-09-6 276-150-1 54 Dichromium tris(chromate) 24613-89-6 246-356-2 55 Potassiumhydroxyoctaoxodizncatedi-chromate 11103-86-9 234-329-8 56 Pentazinc chromate octahydroxide 49663-84-5 256-418-0 57 Aluminosilicate Refractory Ceramic Fibres (RCF) 58 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) 59 Formaldehyde,oligomeric reactionproducts with aniline (tehcnicalMDA) 25214-70-4 500-036-1 60 Bis(2-methoxyethyl) phthalate 117-82-8 204-212-6 61 2-Methoxyanuline;o-Anisidine 90-04-0 201-963-1 62 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) 140-66-9 205-426-2 63 1,2-Dichloroethane 107-06-2 203-458-1 64 Bis(2-methoxyethyl) ether 111-96-6 203-924-4 | 52 | 1,2,3-trichloropropane | 96-18-4 | 202-486-1 |
| 55 Potassiumhydroxyoctaoxodizncatedi-chromate 11103-86-9 234-329-8 56 Pentazinc chromate octahydroxide 49663-84-5 256-418-0 57 Aluminosilicate Refractory Ceramic Fibres (RCF) 58 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) 59 Formaldehyde, oligomeric reactionproducts with aniline (tehcnicalMDA) 25214-70-4 500-036-1 60 Bis (2-methoxyethyl) phthalate 117-82-8 204-212-6 61 2-Methoxyanuline; o-Anisidine 90-04-0 201-963-1 62 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol) 140-66-9 205-426-2 63 1,2-Dichloroethane 107-06-2 203-458-1 64 Bis(2-methoxyethyl) ether 111-96-6 203-924-4 | 53 | | 71888-89-6 | 276-158-1 |
| 56 Pentazinc chromate octahydroxide 49663-84-5 256-418-0 57 Aluminosilicate Refractory CeramicFibres (RCF) | 54 | Dichromium tris(chromate) | 24613-89-6 | 246-356-2 |
| 57 Aluminosilicate Refractory CeramicFibres (RCF) 58 Zirconia Aluminosilicate RefractoryCeramic Fibres(Zr-RCF) 59 Formaldehyde,oligomeric reactionproducts with aniline (tehcnicalMDA) 25214-70-4 500-036-1 60 Bis(2-methoxyethyl) phthalate 117-82-8 204-212-6 61 2-Methoxyanuline;o-Anisidine 90-04-0 201-963-1 62 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) 140-66-9 205-426-2 63 1,2-Dichloroethane 107-06-2 203-458-1 64 Bis(2-methoxyethyl) ether 111-96-6 203-924-4 | 55 | Potassiumhydroxyoctaoxodizncatedi-chromate | 11103-86-9 | 234-329-8 |
| 58 Zirconia Aluminosilicate RefractoryCeramic Fibres(Zr-RCF) 59 Formaldehyde,oligomeric reactionproducts with aniline (tehcnicalMDA) 25214-70-4 500-036-1 60 Bis(2-methoxyethyl) phthalate 117-82-8 204-212-6 61 2-Methoxyanuline;o-Anisidine 90-04-0 201-963-1 62 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) 140-66-9 205-426-2 63 1,2-Dichloroethane 107-06-2 203-458-1 64 Bis(2-methoxyethyl) ether 111-96-6 203-924-4 | 56 | Pentazinc chromate octahydroxide | 49663-84-5 | 256-418-0 |
| 59 Formaldehyde,oligomeric reactionproducts with aniline (tehcnicalMDA) 25214-70-4 500-036-1 60 Bis(2-methoxyethyl) phthalate 117-82-8 204-212-6 61 2-Methoxyanuline;o-Anisidine 90-04-0 201-963-1 62 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) 140-66-9 205-426-2 63 1,2-Dichloroethane 107-06-2 203-458-1 64 Bis(2-methoxyethyl) ether 111-96-6 203-924-4 | 57 | Aluminosilicate Refractory CeramicFibres (RCF) | | |
| 60 Bis(2-methoxyethyl) phthalate 117-82-8 204-212-6 61 2-Methoxyanuline;o-Anisidine 90-04-0 201-963-1 62 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) 140-66-9 205-426-2 63 1,2-Dichloroethane 107-06-2 203-458-1 64 Bis(2-methoxyethyl) ether 111-96-6 203-924-4 | 58 | Zirconia Aluminosilicate RefractoryCeramic Fibres(Zr-RCF) | | |
| 61 2-Methoxyanuline;o-Anisidine 90-04-0 201-963-1 62 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) 140-66-9 205-426-2 63 1,2-Dichloroethane 107-06-2 203-458-1 64 Bis(2-methoxyethyl) ether 111-96-6 203-924-4 | 59 | Formaldehyde,oligomeric reactionproducts with aniline (tehcnicalMDA) | 25214-70-4 | 500-036-1 |
| 62 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) 140-66-9 205-426-2 63 1,2-Dichloroethane 107-06-2 203-458-1 64 Bis(2-methoxyethyl) ether 111-96-6 203-924-4 | 60 | Bis(2-methoxyethyl) phthalate | 117-82-8 | 204-212-6 |
| 63 1,2-Dichloroethane 107-06-2 203-458-1 64 Bis(2-methoxyethyl) ether 111-96-6 203-924-4 | 61 | 2-Methoxyanuline;o-Anisidine | 90-04-0 | 201-963-1 |
| 64 Bis(2-methoxyethyl) ether 111-96-6 203-924-4 | 62 | 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) | 140-66-9 | 205-426-2 |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 63 | 1,2-Dichloroethane | 107-06-2 | 203-458-1 |
| 65 Arsenic acid 7778-39-4 231-901-9 | 64 | Bis(2-methoxyethyl) ether | 111-96-6 | 203-924-4 |
| | 65 | Arsenic acid | 7778-39-4 | 231-901-9 |

| No | SVHC Substance Name | CAS No. | EC No. |
|----|--|------------|------------|
| 66 | Calcium arsenate | 7778-44-1 | 231-904-5 |
| 67 | Trilead diarsenate | 3687-31-8 | 222-979-5 |
| 68 | N,N-dimethylacetamide(DMAC) | 127-19-5 | 204-826-4 |
| 69 | 2,2'-dichloro-4,4'-methylenedianiline(MOCA) | 101-14-4 | 202-918-9 |
| 70 | Phenolphthalein | 77-09-08 | 201-004-7 |
| 71 | Lead azide Lead diazide | 13424-46-9 | 236-542-1 |
| 72 | Lead styphnate | 15245-44-0 | 239-290-0 |
| 73 | Lead dipicrate | 6477-64-1 | 229-335-2 |
| 74 | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) | 203-977-3 | 112-49-2 |
| 75 | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) | 203-794-9 | 110-71-4 |
| 76 | Diboron trioxide | 215-125-8 | 1303-86-2 |
| 77 | Formamide | 200-842-0 | 75-12-7 |
| 78 | Lead(II) bis(methanesulfonate) | 401-750-5 | 17570-76-2 |
| 79 | TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) | 219-514-3 | 2451-62-9 |
| 80 | β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) | 423-400-0 | 59653-74-6 |
| 81 | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) | 202-027-5 | 90-94-8 |
| 82 | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) | 202-959-2 | 101-61-1 |
| 83 | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) | 208-953-6 | 548-62-9 |
| 84 | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) | 219-943-6 | 2580-56-5 |
| 85 | lpha , $lpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) | 229-851-8 | 6786-83-0 |
| 86 | 4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol | 209-218-2 | 561-41-1 |

This information represents the best of Zywyn's knowledge and belief as of to-date that it is provided. Zywyn acknowledges the material content on information provided by appointed supplying vendors. We have taken records, measures, and will continue to take commercially reasonable steps to provide representative and accurate information, but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. Zywyn and our appointed material supplying vendors have considered that certain information is proprietary, thus the CAS numbers and other sensitive information may not be available for release.

Zywyn provides product warranty on the material content representations in the Zywyn Environmental Declaration Statement on Pb-Free & RoHS Compliancy document, which can be found at http://www.zywyn.com/files/Zywyn-Environmental-Declaration.jpg.

Zywyn Quality & Assurance Group