# SAHARA COL CLEAR



| Version<br>1.1 | Revision Date:<br>01/07/2021 |      | DS Number:<br>00000261089          | Date of last issue: 06/08/2020<br>Date of first issue: 06/08/2020 |
|----------------|------------------------------|------|------------------------------------|---|
| SECTION        | 1. IDENTIFICATION            |      |                                    |   |
| Prod           | uct name                     | :    | SAHARA COL CI                      | EAR   |
| Prod           | uct code                     | :    | 00000000005000                     | 2500  |
| Man            | ufacturer or supplier's      | det  | ails                               |   |
| Com            | pany name of supplier        | :    | Sika MBCC US L                     | LC  |
| Addr           | ess                          | :    | 201 POLITO AVE<br>Lyndhurst NJ 070 |   |
| Eme            | rgency telephone             | :    | ChemTel: +1-813                    | -248-0585   |
| Reco           | ommended use of the          | cher | nical and restriction              | ons on use  |
| Reco           | ommended use                 | :    | Product for constr                 | ruction chemicals   |
| Rest           | rictions on use              | :    | Reserved for indu                  | strial and professional use.                                      |

## SECTION 2. HAZARDS IDENTIFICATION

| GHS classification in accordant Skin sensitization :                      | nce with 29 CFR 1910.1200<br>Category 1   |
|---|---|
| Carcinogenicity (Inhalation) :  | Category 1A   |
| Specific target organ toxicity :<br>- repeated exposure (Inhala-<br>tion) | Category 1 (Lungs)  |
| Specific target organ toxicity :<br>- repeated exposure (Inhala-<br>tion) | Category 2 (Kidney, Immune system)  |
| GHS label elements<br>Hazard pictograms :                                 |   |
| Signal Word :   | Danger  |
| Hazard Statements :   | H317 May cause an allergic skin reaction.<br>H350i May cause cancer by inhalation.<br>H372 Causes damage to organs (Lungs) through prolonged or<br>repeated exposure if inhaled.<br>H373 May cause damage to organs (Kidney, Immune system)<br>through prolonged or repeated exposure if inhaled. |

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| Preca          | autionary Statements         | face protection<br>P201 Obtain sp<br>P260 Do not be<br>P202 Do not ha<br>and understood<br>P270 Do not ea<br>P264 Wash fac<br>handling. | pecial instructions before use.<br>reathe dust or mist.<br>andle until all safety precautions have been read   |
|                |                              | P302 + P352 II<br>P362 + P364 T<br>reuse.   | ical advice/ attention if you feel unwell.<br>F ON SKIN: Wash with plenty of water.<br>Take off contaminated clothing and wash it before<br>F exposed or concerned: Call a POISON<br>or. |
|                |                              | <b>Storage:</b><br>P405 Store loc   | ked up.  |
|                |                              | <b>Disposal:</b><br>P501 Dispose<br>waste collectio   | of contents/container to appropriate hazardous<br>n point.   |
|                | <b>r hazards</b><br>known.   |   |  |

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical nature | : | Preparation based on: |
|-----------------|---|-----------------------|
|                 |   | inorganic compounds   |
|                 |   | polymers              |

### Components

| Chemical name   | CAS-No.    | Concentration (% w/w) |
|---|------------|-----------------------|
| Quartz (SiO2)   | 14808-60-7 | >= 50 - < 75          |
| Limestone   | 1317-65-3  | >= 10 - < 25          |
| Distillates (petroleum), solvent-<br>refined heavy paraffinic | 64741-88-4 | >= 0 - < 0.2          |
| Distillates (petroleum), solvent-<br>refined light paraffinic | 64741-89-5 | >= 0 - < 0.2          |

#### **SECTION 4. FIRST AID MEASURES**

|            |   | First aid personnel should pay attention to their own safety.<br>Immediately remove contaminated clothing. |
|------------|---|--|
| If inhaled | : | If difficulties occur after vapour/aerosol has been inhaled,   |





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|                |   | remove to fre                                | esh air and seek medical attention.  |
| In             | case of skin contact  | : If on skin, rin                            | se well with water.  |
| In             | case of eye contact   | Remove cont<br>Protect unha<br>Keep eye wid  |  |
| lf s           | wallowed  | : Immediately<br>seek medical<br>Do NOT indu |  |
| an             | est important symptoms<br>d effects, both acute and<br>ayed | May cause c                                  | n allergic skin reaction.<br>ancer.<br>age to organs through prolonged or repeated |
| No             | tes to physician  | : Treat sympto                               | matically.   |

### SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media                   | : | Foam<br>Water spray<br>Dry powder<br>Carbon dioxide (CO2)  |
|--|---|--|
| Unsuitable extinguishing media                 | : | water jet  |
| Specific hazards during fire fighting          | : | See SDS section 10 - Stability and reactivity.   |
| Hazardous combustion prod-<br>ucts             | : | harmful vapours<br>nitrogen oxides<br>fumes/smoke<br>carbon black<br>carbon oxides   |
| Further information                            | : | Standard procedure for chemical fires.<br>Use extinguishing measures that are appropriate to local cir-<br>cumstances and the surrounding environment. |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if nec-<br>essary.  |

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec- : | Use personal protective equipment. |
|---------------------------------|------------------------------------|
| tive equipment and emer-        |                                    |
| gency procedures                |                                    |

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|-------------|-----------------|--|----|---|---|
|             | Enviror         | nmental precautions                          | :  | Prevent further le  | rom entering drains.<br>akage or spillage if safe to do so.<br>taminates rivers and lakes or drains inform<br>ties. |
|             |                 | ls and materials for<br>ment and cleaning up | :  | acid binder, unive  | absorbent material (e.g. sand, silica gel,<br>rsal binder, sawdust).<br>closed containers for disposal.             |
| SEC         | TION 7          | . HANDLING AND ST                            | OR | AGE   |   |
|             |                 | on protection against<br>l explosion         | :  | Normal measures   | for preventive fire protection.   |
|             | Advice          | on safe handling                             | :  | Avoid contact with<br>For personal prote<br>Smoking, eating a<br>plication area.<br>Dispose of rinse w<br>regulations.<br>Persons susceptil<br>allergies, chronic | obtain special instructions before use.   |
|             | Conditi         | ons for safe storage                         | :  | place.<br>Observe label pre   | ions / working materials must comply with   |
|             |                 | information on stor-<br>nditions             | :  |   | original container in a cool, dry, well-<br>way from ignition sources, heat or flame.<br>t sunlight.                |
|             | Further age sta | information on stor-<br>bility               | :  | No decompositior  | if stored and applied as directed.  |

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Components | CAS-No.   | Value type<br>(Form of<br>exposure) | Control parame-<br>ters / Permissible<br>concentration | Basis               |
|------------|-----------|-------------------------------------|--|---------------------|
| Limestone  | 1317-65-3 | REL value<br>(Respirable)           | 5 mg/m3  | NIOSH               |
|            |           | REL value<br>(Total)                | 10 mg/m3   | NIOSH               |
|            |           | PEL (Respir-<br>able fraction)      | 5 mg/m3  | 29 CFR<br>1910.1000 |

### Ingredients with workplace control parameters



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|----------|------------------------------|-----------------------------|---|-------------------|-------------|
| l        |                              | I                           |   |                   | (Table Z-1) |
|          |                              |                             | PEL (Total  | 15 mg/m3          | 29 CFR      |
|          |                              |                             |   | 15 mg/ms          | 1910.1000   |
|          |                              |                             | dust)   |                   |             |
|          |                              |                             |   | - / 0             | (Table Z-1) |
|          |                              |                             | TWA value   | 5 mg/m3           | 29 CFR      |
|          |                              |                             | (Respirable   |                   | 1910.1000   |
|          |                              |                             | fraction)   |                   | (Table Z-1- |
|          |                              |                             | TWA value   | 15 mg/m3          | 29 CFR      |
|          |                              |                             | (Total dust)  |                   | 1910.1000   |
|          |                              |                             |   |                   | (Table Z-1- |
|          |                              |                             | TWA (total  | 15 mg/m3          | OSHA Z-1    |
|          |                              |                             | dust)   |                   |             |
|          |                              |                             | TWÁ (respir-  | 5 mg/m3           | OSHA Z-1    |
|          |                              |                             | able fraction)  | 0                 | 001         |
|          |                              |                             | TWA (Total  | 15 mg/m3          | OSHA P0     |
|          |                              |                             | dust)   | 10 1119/1110      |             |
|          |                              |                             | TWA (respir-  | 5 mg/m3           | OSHA P0     |
|          |                              |                             | able dust   | 5 mg/ms           | 03HA P0     |
|          |                              |                             |   |                   |             |
|          |                              |                             | fraction)   |                   |             |
|          |                              |                             | TWA (Res-   | 5 mg/m3           | NIOSH REI   |
|          |                              |                             | pirable)  | (Calcium car-     |             |
|          |                              |                             |   | bonate)           |             |
|          |                              |                             | TWA (total)   | 10 mg/m3          | NIOSH REI   |
|          |                              |                             |   | (Calcium car-     |             |
|          |                              |                             |   | bonate)           |             |
| Quart    | z (SiO2)                     | 14808-60-7                  | TWA value   | 0.025 mg/m3       | ACGIHTLV    |
|          |                              |                             | (Respirable   |                   |             |
|          |                              |                             | fraction)   |                   |             |
|          |                              |                             | TWA value   | 0.05 mg/m3        | 29 CFR      |
|          |                              |                             |   | (Respirable dust) | 1910.1001-  |
|          |                              |                             |   |                   | 1050        |
|          |                              |                             | OSHA Action   | 0.025 mg/m3       | 29 CFR      |
|          |                              |                             | level   | (Respirable dust) | 1910.1001-  |
|          |                              |                             |   | (                 | 1050        |
| <u> </u> |                              |                             | REL value   | 0.05 mg/m3        | NIOSH       |
|          |                              |                             | (Respirable   | 5.00 mg/m0        |             |
|          |                              |                             | dust)   |                   |             |
|          |                              |                             | TWA (Res-   | 0.05 mg/m3        | OSHA Z-1    |
|          |                              |                             | pirable dust)   | 0.00 mg/mo        |             |
|          |                              |                             |   | 10 mg/m3 /        | OSHA Z-3    |
|          |                              |                             | TWA (respir-  |                   | 03RA Z-3    |
|          |                              |                             | able)   | %SiO2+2           |             |
|          |                              |                             | TWA (respir-  | 250 mppcf /       | OSHA Z-3    |
|          |                              |                             | able)   | %SiO2+5           |             |
|          |                              |                             | TWA (respir-  | 0.1 mg/m3         | OSHA P0     |
|          |                              |                             | able dust   |                   |             |
|          |                              |                             | fraction)   |                   |             |
|          |                              |                             | TWA (Res-   | 0.025 mg/m3       | ACGIH       |
|          |                              |                             | pirable par-  | (Silica)          |             |
|          |                              |                             | ticulate mat-   |                   |             |
|          |                              |                             | ter)  |                   |             |
|          |                              |                             | PEL (respir-  | 0.05 mg/m3        | OSHA CAR    |
|          |                              |                             | able)   |                   |             |
|          |                              |                             |   |                   |             |
|          |                              |                             | TWA (Res-   | 0.05 mg/m3        | NIOSH REL   |



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|       | ates (petroleum), solvent-<br>d heavy paraffinic | 64741-88-4                  | TWA value<br>(Inhalable<br>fraction)         | 5 mg/m3                                      | ACGIHTLY                          |
|       |  |                             | Ceil_Time                                    | 1,800 mg/m3                                  | NIOSH                             |
|       |  |                             | REL value                                    | 350 mg/m3                                    | NIOSH                             |
|       |  |                             | REL value<br>(Mist)                          | 5 mg/m3                                      | NIOSH                             |
|       |  |                             | STEL value<br>(Mist)                         | 10 mg/m3                                     | NIOSH                             |
|       |  |                             | PEL (Mist)                                   | 5 mg/m3                                      | 29 CFR<br>1910.1000<br>(Table Z-1 |
|       |  |                             | PEL  | 500 ppm<br>2,000 mg/m3                       | 29 CFR<br>1910.1000<br>(Table Z-1 |
|       |  |                             | TWA value<br>(Mist)                          | 5 mg/m3                                      | 29 CFR<br>1910.1000<br>(Table Z-1 |
|       |  |                             | TWA (Mist)                                   | 5 mg/m3                                      | OSHA Z-1                          |
|       |  |                             | TWA (Inhal-<br>able particu-<br>late matter) | 5 mg/m3                                      | ACGIH                             |
|       |  |                             | TWA (Mist)                                   | 5 mg/m3                                      | OSHA P0                           |
|       |  |                             | TWA (Mist)                                   | 5 mg/m3                                      | NIOSH RE                          |
|       |  |                             | ST (Mist)                                    | 10 mg/m3                                     | NIOSH RE                          |
|       | ates (petroleum), solvent-<br>d light paraffinic | 64741-89-5                  | TWA value<br>(Inhalable<br>fraction)         | 5 mg/m3                                      | ACGIHTL                           |
|       |  |                             | REL value<br>(Mist)                          | 5 mg/m3                                      | NIOSH                             |
|       |  |                             | STEL value<br>(Mist)                         | 10 mg/m3                                     | NIOSH                             |
|       |  |                             | PEL (Mist)                                   | 5 mg/m3                                      | 29 CFR<br>1910.1000<br>(Table Z-1 |
|       |  |                             | TWA value<br>(Mist)                          | 5 mg/m3                                      | 29 CFR<br>1910.1000<br>(Table Z-1 |
|       |  |                             | TWA (Mist)                                   | 5 mg/m3                                      | OSHA Z-1                          |
|       |  |                             | TWA (Inhal-<br>able particu-<br>late matter) | 5 mg/m3                                      | ACGIH                             |
|       |  |                             | TWA (Mist)                                   | 5 mg/m3                                      | OSHA P0                           |
|       |  | 1                           | TWA (Mist)                                   | 5 mg/m3                                      | NIOSH RE                          |
|       |  | 1                           |  |  |                                   |

**Engineering measures** : Ensure adequate ventilation.

#### Personal protective equipment

Respiratory protection

: Wear appropriate certified respirator when exposure limits may be exceeded.

Hand protection

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|---------------------|------------------------------|---|--|---|--|
| Remarks             |                              | : | : Wear chemical resistant protective gloves. Manufactur<br>directions for use should be observed because of great<br>versity of types.   |   |  |
| Eye p               | protection                   | : | Safety glasses w   | ith side-shields.   |  |
| Skin                | Skin and body protection     |   | Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.   |   |  |
| Protective measures |                              | : | Do not inhale gases/vapours/aerosols.<br>Avoid contact with the skin, eyes and clothing.<br>Avoid exposure - obtain special instructions before use.<br>Handle in accordance with good building materials hygiene<br>and safety practice.<br>Wearing of closed work clothing is recommended. |   |  |
| Hygiene measures    |                              | : | When using do n<br>When using do n<br>Wash hands befo  |   |  |

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance  | : | viscous liquid  |
|---|---|---|
| Color   | : | off-white to beige  |
| Odor  | : | like acrylic  |
| Odor Threshold                                      | : | not determined  |
| рН  | : | 9 - 10 (73 °F / 23 °C)  |
| Melting point                                       | : | No data available.  |
| Freezing point                                      |   | No data available   |
| Boiling point                                       | : | Not applicable  |
| Flash point   | : | A flash point determination is unnecessary due to the high water content. |
| Evaporation rate                                    | : | No applicable information available.                                      |
| Flammability (solid, gas)                           | : | Not classified as a flammability hazard                                   |
| Upper explosion limit / Upper<br>flammability limit | : | No applicable information available.                                      |
| Lower explosion limit / Lower                       | : | No applicable information available.                                      |

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| flamma         | ability limit                  |   |                                   |   |
| Relativ        | ve vapor density               | : | Heavier than air.                 |   |
| Relativ        | ve density                     | : | 1.85                              |   |
| Densit         | у                              | : | 1.83 g/cm3 (73 °                  | F / 23 °C)  |
| Bulk d         | ensity                         | : | Not applicable                    |   |
|                | lity(ies)<br>tter solubility   | : | partly miscible                   |   |
| Sol            | ubility in other solvents      | : | No applicable inf                 | ormation available.   |
|                | on coefficient: n-<br>pl/water | : | Not applicable                    |   |
| Autoig         | nition temperature             | : | Based on the wa                   | ter content the product does not ignite.                          |
| Decon          | Decomposition temperature      |   | No decompositio scribed/indicated | n if stored and handled as pre-                                   |
| Viscos<br>Vis  | ity<br>cosity, dynamic         | : | No applicable inf                 | ormation available.   |
| Vis            | cosity, kinematic              | : | No applicable inf                 | ormation available.   |
| Explos         | sive properties                | : | Not explosive<br>Not explosive    |   |
| Oxidiz         | ing properties                 | : | Not an oxidizer.                  |   |
| Sublim         | nation point                   | : | No applicable inf                 | ormation available.   |
| Molecu         | ular weight                    | : | No data available                 | 9   |

## SECTION 10. STABILITY AND REACTIVITY

| Reactivity                              | : | No hazardous reactions if stored and handled as pre-<br>scribed/indicated. |
|---|---|--|
| Chemical stability                      | : | The product is stable if stored and handled as pre-<br>scribed/indicated.  |
| Possibility of hazardous reac-<br>tions | : | No decomposition if stored and applied as directed.                        |
| Conditions to avoid                     | : | See SDS section 7 - Handling and storage.                                  |
| Incompatible materials                  | : | Strong acids<br>Strong bases<br>Strong oxidizing agents                    |

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|                      |  | Strong reducing agents  |
| Hazar<br>produ       | dous decomposition                               | : No hazardous decomposition products if stored and handled as prescribed/indicated.  |
| SECTION              | 11. TOXICOLOGICAL                                | INFORMATION   |
|                      | <b>e toxicity</b><br>assified based on avail     | able information.   |
|                      | corrosion/irritation<br>assified based on avail  | able information.   |
|                      | us eye damage/eye ir<br>assified based on avail  |   |
| Resp                 | iratory or skin sensiti                          | zation  |
| -                    | sensitization<br>ause an allergic skin re        | eaction.  |
| -                    | iratory sensitization<br>assified based on avail | able information.   |
|                      | cell mutagenicity<br>assified based on avail     | able information.   |
|                      | <b>nogenicity</b><br>ause cancer by inhalat      | ion.  |
| •                    | oductive toxicity<br>assified based on avail     | able information.   |
|                      | -single exposure<br>assified based on avail      | able information.   |
| Cause                | ause damage to organ                             | Lungs) through prolonged or repeated exposure if inhaled.<br>Is (Kidney, Immune system) through prolonged or repeated exposure              |
| -                    | ation toxicity<br>assified based on avail        | able information.   |
| Furth                | er information                                   |   |
| <u>Produ</u><br>Rema |  | : The product has not been tested. The statements on toxicolo-<br>gy have been derived from the properties of the individual<br>components. |
| ECTION               | 12. ECOLOGICAL INF                               | ORMATION  |
|                      | ,  |   |
|                      | <b>oxicity</b><br>Ita available                  |   |



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|                 | stence and degradab          | ility                       |  |
|                 | ccumulative potential        |                             |  |
|                 | •                            |                             |  |
| Com             | ponents:                     |                             |  |
| Distil          | lates (petroleum), so        | lvent-refined heavy         | y paraffinic:  |
| Partit          | ion coefficient: n-          | : log Pow: > 4              |  |
| octan           | ol/water                     | Method: othe                | er (calculated)  |
| Distil          | lates (petroleum), so        | lvent-refined light         | paraffinic:  |
| Partit          | ion coefficient: n-          | : log Pow: > 4.             | 9  |
| octan           | ol/water                     | Method: othe                | er (calculated)  |
| Mobi            | lity in soil                 |                             |  |
| No da           | ata available                |                             |  |
| Othe            | r adverse effects            |                             |  |
| Prod            | uct:                         |                             |  |
| Additi<br>matio | ional ecological infor-      |                             | gh probability that the product is not acutely<br>juatic organisms.                            |
|                 |                              | The product                 | has not been tested. The statements on ecotox been derived from the properties of the individu |
|                 |                              |                             |  |

| Disposal methods       |   |  |
|------------------------|---|--|
| Waste from residues    | : | Dispose of in accordance with national, state and local regula-<br>tions.  |
|                        |   | Do not contaminate ponds, waterways or ditches with chemi-<br>cal or used container.<br>Do not discharge into drains/surface waters/groundwater. |
|                        |   |  |
| Contaminated packaging | : | Contaminated packaging should be emptied as far as possible<br>and disposed of in the same manner as the sub-<br>stance/product.                 |

### **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulations**

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good





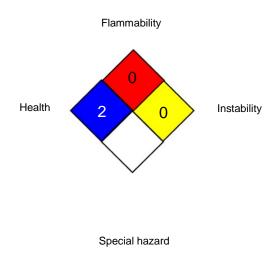
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|------------------------|------------------------------|-----------------------------|---|
|                        | sport in bulk accord         | -                           | RPOL 73/78 and the IBC Code   |
|                        | estic regulation             |                             |   |
| <b>49 CI</b><br>Not re | FR<br>egulated as a danger   | ous good                    |   |
| SECTION                | 15. REGULATORY               | NFORMATION                  |   |
| Calif                  | ornia Prop. 65               |                             |   |
| know                   | •                            | ornia to cause cancer.      | nicals including Quartz (SiO2), which is/are<br>For more information go to              |
| The i                  | ngredients of this p         | roduct are reported ir      | the following inventories:  |
| DSL                    |                              | : All components            | s of this product are on the Canadian DSL   |
| TSC/                   | Ą                            |                             | bstances in this product are either listed as SCA Inventory or are in compliance with a |

TSCA Inventory exemption.

### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA 704:



#### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

| ,                          | : | OSHA - Table Z-1-A (29 CFR 1910.1000)                 |
|----------------------------|---|---|
| 1-A)                       |   |   |
| 29 CFR 1910.1000 (Table Z- | : | OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR |
| 1)                         |   | 1910.1000   |
| 29 CFR 1910.1001-1050      | : | OSHA - Specifically Regulated Substances (29 CFR      |



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|--------------|----------------------------|------------------------------|---|----------------------------|---|
|              |                            |                              |   | 1010 1001 1050)            |   |
|              | ACGIH                      |                              |   | 1910.1001-1050)            | shold Limit Values (TLV)  |
|              | ACGIH                      | TLV                          | : |                            | nce of Governmental Industrial Hygienists -                       |
|              | //00///                    |                              | • | threshold limit valu       |   |
|              | NIOSH                      |                              | • |                            | ide to Chemical Hazards (US)                                      |
|              | NIOSH                      | REL                          | : |                            | ommended Exposure Limits  |
|              | OSHA (                     |                              | : |                            | Regulated Chemicals/Carcinogens                                   |
|              | OSHA I                     | P0                           | : |                            | BLE Z-1 Limits for Air Contaminants -                             |
|              |                            |                              |   | 1910.1000                  |   |
|              | OSHA 2                     | <u>Z-1</u>                   | : |                            | al Exposure Limits (OSHA) - Table Z-1 Lim-                        |
|              |                            |                              |   | its for Air Contami        |   |
|              | OSHA 2                     | Z-3                          | : |                            | al Exposure Limits (OSHA) - Table Z-3 Min-                        |
|              |                            |                              |   | eral Dusts                 |   |
|              |                            | 1910.1000 (Table Z-          | : | Time Weighted Av           | verage (TWA):   |
|              | 1-A) / TWA value           |                              |   | Deversionality is a surrow | the line is   |
|              | 29 CFR 1910.1000 (Table Z- |                              | : | Permissible expos          | sure limit  |
|              | 1) / PEL                   | -<br>1910.1001-1050 /        | : | OSHA Action leve           | 1.  |
|              |                            | Action level                 | • |                            | 1.  |
|              |                            | 1910.1001-1050 /             | : | Time Weighted Av           | verage (TWA).   |
|              | TWA va                     |                              | • |                            |   |
|              | ACGIH                      |                              | : | 8-hour, time-weigh         | nted average  |
|              |                            | TLV / TWA value              | : | Time Weighted Av           |   |
|              |                            | / Ceil_Time                  | : |                            | and Time Period (if specified):                                   |
|              | NIOSH                      | / REL value                  | : |                            | posure limit (REL):   |
|              | NIOSH                      | / STEL value                 | : | Short Term Expos           | ure Limit (STEL):   |
|              | NIOSH                      | REL / TWA                    | : |                            | erage concentration for up to a 10-hour                           |
|              |                            |                              |   |                            | 40-hour workweek  |
|              | NIOSH                      | REL / ST                     | : |                            | TWA exposure that should not be exceeded                          |
|              | 00111                      |                              |   | at any time during         |   |
|              |                            |                              | : | Permissible expos          |   |
|              |                            | P0/TWA                       | ÷ | 8-hour time weigh          |   |
|              |                            | Z-1 / TWA                    | ÷ | 8-hour time weigh          |   |
|              | USHA /                     | Z-3 / TWA                    | : | 8-hour time weigh          | ted average   |

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level;



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NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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