


## SAFETY DATA SHEET

Version 1.1

Revision Date 04/02/2020

| 1. Product and Company Identification |  |
|---------------------------------------|--|
| Product Name                          | Silica gel HL, Silica gel HPTLC-HL, 150 Silica gel HL, Ergosil       |
| Product Number                        | B46xxx, P46xxx, P58xxx, P76xxx, (where xxx=package size)             |
| Identified Uses                       | Laboratory chemicals   |
| Brand                                 | Analtech   |
| Company                               | Miles Scientific (Analtech)<br>75 Blue Hen Drive<br>Newark, DE 19713 |
| Telephone                             | 1 800 441-7540   |
| Emergency Telephone                   | 1 302 737-6960 (Mon-Thur, 7am-5pm EST)                               |

| 2. Hazard Identification                |  |
|---|--|
| Classification                          |  |
| Eye irritation                          | Category 2A, causes serious eye irritation (H319)  |
| GHS Label Elements                      |  <div style="float: right; font-size: 24pt; font-weight: bold;">Warning</div>                                   |
| Hazards Not Otherwise Classified (HNOC) | Above hazard classification relates to proprietary ingredient. This component being present in minor amounts and bound within a matrix is thought to present a lesser degree of risk.            |
|   | Product is very adsorbent and may have a drying effect on skin and eyes. When exceeding the OEL (Occupational Exposure Limit), a mechanical overburdening of the respiratory system is possible. |

|  |  |
|--|--|
| P260 – Do not breath dust/fume/gas/mist/vapors/spray                             | P240+P233 - Store in a well ventilated place. Keep closed.   |
| P264 – Wash skin thoroughly after handling                                       | P305+P350+P338 - If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if possible. |
| P270 – Do not eat, drink or smoke when using this product                        | P337+P313 - If eye irritation persists, get medical attention  |
| P280 – Wear protective gloves/protective clothing/eye protection/face protection | P501 - Dispose of contents/container to an approved waste disposal plant.  |

| 3. Composition / Information on Ingredients |            |           |                 |               |
|---|------------|-----------|-----------------|---------------|
| Component                                   | CAS Number | EC Number | Classification  | Concentration |
| Silica, amorphous                           | 7631-86-9  | 231-545-4 | ----            | 97-99 %       |
| Proprietary ingredient                      | ----       | ----      | Eye Irritant 2A | 1-3 %         |

| 4. First Aid Measures |   |
|-----------------------|---|
| After Inhalation      | Move to fresh air, give artificial respiration if breathing has stopped   |
| After skin contact    | Wash with soap and water  |
| After eye contact     | Flush with water for at least 30 minutes. If eye irritation persists get medical advice/attention.              |
| After ingestion       | Rinse mouth with water, do not induce vomiting, seek medical attention  |
| General advice        | Material has a drying effect, prolonged contact may cause irritation. If symptoms persist, consult a physician. |

| 5. Fire Fighting Measures     |  |
|-------------------------------|--|
| Suitable extinguishing media  | Water, foam, carbon dioxide, dry chemical  |
| Hazardous combustion products | Carbon dioxide, carbon monoxide, potential unknown decomposition products                |
| Protective equipment          | Wear personal protective equipment, wear self-contained breathing apparatus if necessary |
| Additional information        | Dispose of fire debris in accordance with official regulations                           |

| 6. Accidental Release Measures                  |   |
|---|---|
| Personal precautions                            | Avoid dust formation, wear protective clothing, ensure adequate ventilation |
| Environmental precautions                       | Damp down dust with water spray, contain contaminated water and dispose     |
| Methods, materials for containment and clean-up | Vacuuming or wet sweep to avoid dust dispersal                              |
| Reference to other sections                     | No dangerous substances are released  |

| 7. Handling and Storage       |  |
|-------------------------------|--|
| Precautions for safe handling | Prevent formation of dust, provide appropriate exhaust ventilation, use proper grounding when transferring into flammable solvents |
| Conditions for safe storage   | Keep receptacles tightly closed, store in dry conditions, product is hygroscopic   |

| 8. Exposure Controls / Personal Protection    |   |               |
|---|---|---------------|
| Component                                     | Value   | Concentration |
| Silica, amorphous                             | CAS Number: 7631-86-9   | 97-99 %       |
| IDLH: Immediately Dangerous to Life or Health | Short term value: 3000 mg / m <sup>3</sup>  |               |
| PEL: OSHA TWA for amorphous silica            | Long term value: 80 mg / m <sup>3</sup>   |               |
| REL: NIOSH TWA                                | Long term value: 6 mg / m <sup>3</sup>  |               |
| TLV: ACGIH TWA                                | Long term value: 10 mg / m <sup>3</sup> (total dust), 5 mg / m <sup>3</sup> (respirable fraction) |               |
| Component                                     | Value   | Concentration |
| Proprietary ingredient                        | CAS Number: ----  | 1-3 %         |
| PEL: OSHA TWA                                 | Long term value: no data available  |               |
| REL: NIOSH TWA                                | Long term value: no data available  |               |
| TLV: ACGIH TWA                                | Long term value: no data available  |               |

|                        |  |
|------------------------|--|
| Eye/face protection    | Use equipment for eye protection tested and approved under NIOSH or EN 166   |
| Skin protection        | Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique. Material: butyl rubber (BR), nitrile rubber (NBR), thickness ≥ 0.11 mm. |
| Body protection        | Protective work clothing   |
| Respiratory protection | Not required. Where protection from nuisance levels of dust is desired, use type N95 (US) or P1 (EN 143).  |

| 9. Physical and Chemical Properties |               |                       |                     |                         |                             |
|-------------------------------------|---------------|-----------------------|---------------------|-------------------------|-----------------------------|
| Appearance:                         | White powder  | Flash point:          | Not available       | Lower explosion limit:  | Not available               |
| Odor:                               | Odorless      | Flammability:         | Not flammable       | Upper explosion limit:  | Not available               |
| Odor threshold:                     | Not available | Ignition temperature: | Not available       | Vapor pressure at 20°C: | --hPa                       |
| pH value at 20 °C:                  | 4.0 – 9.0     | Decomposition temp:   | Not available       | Density at 20 °C:       | 2.17-2.20 g/cm <sup>3</sup> |
| Melting point:                      | > 1700 °C     | Auto igniting:        | Not self igniting   | Bulk Density at 20 °C:  | 200-600 kg/m <sup>3</sup>   |
| Boiling point:                      | > 1700 °C     | Danger of Explosion:  | No explosion hazard | Evaporation Rate:       | Not applicable              |

| <b>10. Stability and Reactivity</b> |                         |
|-------------------------------------|-------------------------|
| Reactivity                          | No data available       |
| Chemical stability                  | Stable in designed use  |
| Hazardous reactions                 | None known              |
| Conditions to avoid                 | No data available       |
| Incompatible materials              | Strong oxidizing agents |
| Hazardous decomposition products    | No data available       |

| <b>11. Toxicological Information</b> |  |
|--------------------------------------|--|
| LD/LC50 - oral, dermal, inhalative   | >5000 mg/kg (rat OECD 401), >6000 mg/kg (rabbit), >400-2000 mg/m <sup>3</sup> /4h (rat OECD 403) |
| Primary irritant effect - skin, eyes | 0 (rabbit OECD 404), 0 (rabbit OECD 405)   |
| Sensitization - respiratory, skin    | No data available, no data available   |
| Carcinogenic categories              | IARC – group 3, not classified   |
|                                      | NTP - substance is not listed  |
|                                      | OSHA - substance is not listed   |
| Repeated dose toxicity               | Oral NOAEL 90d = 9000 mg/kg bw/day (rat OECD 408)  |
|                                      | Inhalative NOAEC 90d = 1 mg/m <sup>3</sup> (rat OECD 413)  |
| Mutagenicity                         | >5 mg/plate (in-vitro OECD 471), negative with and without metabolic activation (ECHA 2012)      |
| Reproductive toxicity, oral          | 1350 mg/kg bw/day (rat OECD 414), 1350 mg/kg bw/day (rat OECD 414)                               |
| Specific target organ toxicity       | Single exposure - No data available, Repeated exposure – No data available                       |

| <b>12. Ecological Information</b> |   |
|-----------------------------------|---|
| Toxicity – fish                   | LC0 (96 h static) 10000 mg/l (zebra fish OECD 203)        |
| Toxicity - water flea             | EC50 (24 h) >1000 mg/l (Daphnia magna OECD 202)           |
| Toxicity – algae                  | EC50 (72 h) >1000 mg/l (Scenedesmus subspicatus OECD 201) |
| Persistence and degradability     | No data available   |
| Bioaccumulative potential         | Does not accumulate in organisms                          |
| Mobility in Soil                  | No data available   |
| Results of PBT/vPvb Assessment    | No data available / no data available                     |
| Other Information                 | Amorphous silica is chemically and biologically inert     |

| <b>13. Disposal Information</b> |   |
|---------------------------------|---|
| Recommendation                  | Dispose according to official regulations |

| <b>14. Transportation Information</b> |                                |
|---------------------------------------|--------------------------------|
| UN-Number                             | None                           |
| UN proper shipping name               | None                           |
| Transportation hazard class           | DOT/IMDG/IATA - none/none/none |

| <b>15. Regulatory Information</b>  |   |
|------------------------------------|---|
| SARA 302/304                       | Substance is not listed   |
| SARA 313                           | Substance is not listed   |
| TSCA (Toxic Substance Control Act) | Substance is listed   |
| Proposition 65                     | This product does not contain any chemical known to cause cancer, birth defects, or other reproductive harm |

| <b>16. Other Information</b>  |  |
|---|--|
| HMIS Rating   | Health/Chronic Health/Flammability/Physical Hazard – 1/-/0/0 |
| NFPA Rating   | Health hazard/Fire hazard/Reactivity hazard – 1/0/0          |
| Preparation Information   | Miles Scientific (Analtech)                                  |
| Version   | 1.1  |
| Revision Date   | 4/2/20   |
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