# Safety Data Sheet
## acc. to OSHA HCS

Date of issue: 03/25/2026 Reviewed on 03/25/2026

## 1 Identification

· **Product identifier**

· **Trade name: SCHIEBERSAND Z30-2**
· **Other means of identification**

· **Article number:** 231D
· **Restrictions** For industrial use only
· **Application of the substance / the mixture** Refractory Material
· **Uses advised against** Avoid dry cutting, blasting, or dust generation.

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
HarbisonWalker International Minerals, Inc.
2000 Park Lane Drive, Suite 400
Pittsburgh, PA 15275
412-375-6600

· **Information department:**
SDS@thinkHWI.com
+33 (0)2 59 60 31 14
www.thinkHWI.com
· **Emergency telephone number:** CHEMTREC 24 hour Emergency Number: 1-800-424-9300

## 2 Hazard(s) identification

· **Classification of the substance or mixture**

GHS08 Health hazard

| | |
|---|---|
| Carcinogenicity 1A | H350 May cause cancer. Route of exposure: Inhalation. |
| Specific target organ toxicity (repeated exposure) 1 | H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation. |

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**

GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
Quartz (SiO2)
· **Hazard statements**
H350 May cause cancer. Route of exposure: Inhalation.
H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.
· **Precautionary statements**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.

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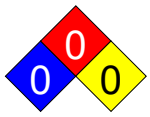
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Information pertaining to particular dangers for man and environment:**
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**




Health = 0
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

| | |
|---|---|
| HEALTH | *0 |
| FIRE | 0 |
| REACTIVITY | 0 |

Health = *0
Fire = 0
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **Classification according to (d)(1)(ii) of § 1910.1200**
The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.
· **Hazards not otherwise classified**
There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

## 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

| | | |
|---|---|---|
| 1308-31-2 | dichromium iron tetraoxide | 30–60% * |
| 14808-60-7 | Quartz (SiO2) | ≥7–<10% * |
| 1333-86-4 | Carbon Black, amorphous | 1–5% * |

* Actual concentration ranges are withheld as a trade secret.
· **Additional information:**
The exact chemical identity and/or percentage (concentration) of the composition has been withheld as a trade secret.

## 4 First-aid measures

· **Description of first aid measures**
· **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· **After inhalation:** Move to fresh air. Call a physician if symptoms develop or persist.
· **After skin contact:**
Wash off with soap and water. Get medical attention if irritation develops and persists.

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· **After eye contact:** Rinse with water. Get medical attention if irritation develops and persists.
· **After swallowing:** Rinse mouth. Get medical attention if symptoms occur.
· **Information for doctor:** No further relevant information available.
· **Danger**
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
· **Extinguishing media**
· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
· **For safety reasons unsuitable extinguishing agents:**
During heating or in case of fire poisonous gases are produced.
· **Protective equipment:** Mouth respiratory protective device.
· **Additional information**
· **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
· **For non-emergency personnel** Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
· **Information about protection against explosions and fires:**
Keep respiratory protective device available.

· **Handling:**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required
· **Further information about storage conditions:** Keep receptacle tightly sealed.
· **Storage class:** No further relevant information available.

## 8 Exposure controls/personal protection

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the remaining constituent has no known exposure limits.

| **1308-31-2 dichromium iron tetraoxide** | |
|---|---|
| PEL | Long-term value: 0.5 mg/m³<br>as Cr |
| REL | Long-term value: 0.5 mg/m³<br>as Cr; See Pocket Guide App. C |
| **14808-60-7 Quartz (SiO2)** | |
| PEL | Long-term value: 0.05* mg/m³<br>*resp. dust; 30mg/m3/%SiO2+2 |
| REL | Long-term value: 0.05* mg/m³<br>*respirable dust; See Pocket Guide App. A |
| TLV | Long-term value: 0.025* mg/m³<br>*respirable particulate matter, A2 |

· **Regulatory information**
PEL: Guide to Occupational Exposure Values (OSHA PELs)
REL: Guide to Occupational Exposure Values (NIOSH RELs)
TLV: Guide to Occupational Exposure Values (TLV)

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· **Ingredients with biological limit values:**
The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Appropriate engineering controls**
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

Tightly sealed goggles

· **Body protection:**

| | |
|---|---|
| · **Information on basic physical and chemical properties** | |
| · **General Information** | |
| · **Physical state** | Solid |
| · **Color:** | According to product specification |
| · **Odor:** | uncharacteristic |
| · **Odor threshold:** | Not determined |
| · **Melting point/Melting range:** | Undetermined |
| · **Boiling point/Boiling range:** | 100 °C (212 °F) |

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| | |
|---|---|
| · **Flammability:** | Not determined |
| · **Explosion limits:** | |
| · **Lower:** | Not determined |
| · **Upper:** | Not determined |
| · **Flash point:** | Not applicable |
| · **Auto igniting:** | Not determined |
| · **pH-value:** | Not applicable |
| · **Viscosity:** | |
| · **Kinematic:** | Not applicable |
| · **Kinematic:** | Not applicable |
| · **Solubility in / Miscibility with** | |
| · **Water:** | Soluble. |
| · **Partition coefficient (n-octanol/water):** | Not determined |
| · **Vapor pressure at 20 °C (68 °F):** | 23 hPa (17.3 mm Hg) |
| · **Vapor pressure:** | |
| · **Density at 20 °C (68 °F):** | 2.58–2.7055 g/cm³ (21.5301–22.5774 lbs/gal) |
| · **Relative density** | Not determined |
| · **Bulk density:** | 2,418–2,588 kg/m³ |
| · **Vapor density** | Not applicable |
| · **Particle characteristics** | Not determined |

| | |
|---|---|
| · **Other information** | |
| · **Form:** | Solid in various forms |
| · **Important information on protection of health and environment, and on safety.** | |
| · **Ignition temperature:** | Product is not selfigniting. |
| · **Danger of explosion:** | Product does not present an explosion hazard. |
| · **Solvent separation test** | |
| · **Organic solvents:** | |
| · **VOC content:** | 0.00 % |
| · **Solids content:** | 100.0 % |
| · **Change in condition** | |
| · **Oxidizing properties** | Not applicable. |

## 10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.
· **Additional information:**
· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**1333-86-4 Carbon Black, amorphous**

| | | |
|---|---|---|
| Oral | LD50 | >8,000 mg/kg (rat) |

· **Specific symptoms in biological assay:**
· **on the skin:** No irritant effect.
· **on the eye:**
Based on available data, the substance is not expected to cause skin or respiratory sensitization.
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.

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· **Specific target organ toxicity - single exposure**
Based on available data, the classification criteria are not met.
· **Specific target organ toxicity - repeated exposure** Not Applicable
· **Other information (about experimental toxicology):**
The product shows the following dangers according to internally approved calculation methods for preparations:
· **Interactive effects** No interactive effects between components are known.

· **Carcinogenic categories**

| · **IARC (International Agency for Research on Cancer)** | | |
|---|---|---|
| 1308-31-2 | dichromium iron tetraoxide | 3 |
| 14808-60-7 | Quartz (SiO2) | 1 |

| · **NTP (National Toxicology Program)** | | |
|---|---|---|
| 14808-60-7 | Quartz (SiO2) | K |

| · **OSHA-Ca (Occupational Safety & Health Administration)** |
|---|
| None of the ingredients is listed. |

· **Alternative sources for toxicological information**
No non-standard sources for toxicological information where used.

## 12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Other information:** No further relevant information available.
· **Other information:** No further relevant information available.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **Other adverse effects**
· **General notes:** Do not allow product to reach ground water, water course or sewage system.

## 13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
· **Waste disposal key:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

| · **UN-Number** | |
|---|---|
| · **DOT, IMDG, IATA** | not regulated |

| · **UN proper shipping name** | |
|---|---|
| · **DOT, IMDG, IATA** | not regulated |

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· **Transport hazard class(es)**

· **DOT, IMDG, IATA**
· **Class** not regulated
· **Label**
· **DOT, IMDG, IATA** not regulated

· **Environmental hazards:** Not applicable
· **Marine pollutant:** Not applicable

· **Transport/Additional information:** Not applicable
· **Poison inhalation hazard:** not regulated

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Section 355 (extremely hazardous substances):**
None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

| | |
|---|---|
| 1308-31-2 | dichromium iron tetraoxide |

· **TSCA (Toxic Substances Control Act):**

| | | |
|---|---|---|
| 7732-18-5 | water, distilled, conductivity or of similar purity | ACTIVE |
| 14808-60-7 | Quartz (SiO2) | ACTIVE |

· **Hazardous Air Pollutants**

| | |
|---|---|
| 1308-31-2 | dichromium iron tetraoxide |

· **Proposition 65**

· **Chemicals known to cause cancer:**

| | |
|---|---|
| 14808-60-7 | Quartz (SiO2) |

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

| | | |
|---|---|---|
| 1308-31-2 | dichromium iron tetraoxide | D, CBD |

· **TLV (Threshold Limit Value)**

| | | |
|---|---|---|
| 14808-60-7 | Quartz (SiO2) | A2 |

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

| | |
|---|---|
| 14808-60-7 | Quartz (SiO2) |

· **OSHA-Ca (Occupational Safety & Health Administration)**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**

GHS08

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· **Signal word** Danger

· **Hazard-determining components of labeling:**
Quartz (SiO2)
· **Hazard statements**
H350 May cause cancer. Route of exposure: Inhalation.
H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.
· **Precautionary statements**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Chemical safety assessment**
· **Additional classification according to Decree on Hazardous Materials:**
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **Other regulations, limitations and prohibitive regulations**
A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge on creation date. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Reasons for alterations**

· **Department issuing SDS:** Global Product Stewardship Team
· **Contact:** SDS@thinkHWI.com
· **Date of previous version**
· **Version number of previous version:** 1
· **Date of preparation / last revision**
· **Date of preparation** 03/25/2026
· **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Carcinogenicity 1A: Carcinogenicity – Category 1A
Specific target organ toxicity (repeated exposure) 1: Specific target organ toxicity (repeated exposure) – Category 1
· **Sources**