

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture GP-3I FUSED SILICA POWDER
Registration number -
Synonyms None.
Brand Code 1438
Issue date 04-January-2019
Version number 01

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses For Industrial Use Only
Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name HarbisonWalker International
Address 1305 Cherrington Parkway, Suite 100
Moon Township, PA 15108, USA
United States

Division

Telephone General Phone: 412-375-6600
CHEMTREC EMERGENCY 1-800-424-9300
US/CAN ONLY

e-mail sds@thinkHWI.com

Contact person HWI USA

1.4. Emergency telephone number Not available.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary Exposure to powder or dusts may be irritating to eyes, nose and throat. Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms None.
Signal word None.
Hazard statements The mixture does not meet the criteria for classification.

Precautionary statements

Prevention
P280 Observe good industrial hygiene practices.
P264 Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Response Wash hands after handling.
Storage Store away from incompatible materials.
Disposal Dispose of waste and residues in accordance with local authority requirements.

Supplemental label information None.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | INDEX No. | Notes |
|------------------|----------|-------------------------|------------------------|-----------|-------|
| Silica, vitreous | 80 - 100 | 60676-86-0 262-373-8 | - | - | |

Classification: -

Other components below reportable levels 2,5 - 10

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

SECTION 4: First aid measures

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact

Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed

Dusts may irritate the respiratory tract, skin and eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards

Not available.

5.1. Extinguishing media

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Not available.

5.2. Special hazards arising from the substance or mixture

Not available.

5.3. Advice for firefighters

Special protective equipment for firefighters

Not available.

Special fire fighting procedures

Not available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged exposure. Practice good housekeeping.

7.2. Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

| Material | Type | Value | Form |
|-----------------------------------|------|-----------------------|----------------------|
| GP-3I FUSED SILICA POWDER | MAK | 0,3 mg/m ³ | Respirable fraction. |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | MAK | 0,3 mg/m ³ | Respirable fraction. |

Belgium. Exposure Limit Values.

| Material | Type | Value | Form |
|-----------------------------------|------|-----------------------|----------------------|
| GP-3I FUSED SILICA POWDER | TWA | 2 mg/m ³ | Respirable fraction. |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | TWA | 0,1 mg/m ³ | Respirable dust. |
| | | 2 mg/m ³ | Respirable fraction. |
| | | 0,1 mg/m ³ | Respirable dust. |

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

| Material | Type | Value | Form |
|-----------------------------------|------|------------------------|----------------------|
| GP-3I FUSED SILICA POWDER | TWA | 10 mg/m ³ | Inhalable fraction. |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | TWA | 0,07 mg/m ³ | Respirable fraction. |
| | | 10 mg/m ³ | Inhalable fraction. |
| | | 0,07 mg/m ³ | Respirable fraction. |

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

| Material | Type | Value | Form |
|-----------------------------------|------|------------------------|------------------|
| GP-3I FUSED SILICA POWDER | MAC | 0,08 mg/m ³ | Respirable dust. |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | MAC | 0,08 mg/m ³ | Respirable dust. |

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.

| Material | Type | Value |
|---------------------------|------|---------------------|
| GP-3I FUSED SILICA POWDER | TWA | 2 mg/m ³ |

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.

| Components | Type | Value | |
|---|-------------|-----------------------|----------------------|
| Silica, vitreous (CAS 60676-86-0) | TWA | 2 mg/m ³ | |
| Czech Republic. OELs. Government Decree 361 | | | |
| Material | Type | Value | Form |
| GP-3I FUSED SILICA POWDER | TWA | 4 mg/m ³ | Dust. |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | TWA | 4 mg/m ³ | Dust. |
| Denmark. Exposure Limit Values | | | |
| Material | Type | Value | Form |
| GP-3I FUSED SILICA POWDER | TLV | 0,1 mg/m ³ | Respirable. |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | TLV | 0,1 mg/m ³ | Respirable. |
| Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001) | | | |
| Material | Type | Value | Form |
| GP-3I FUSED SILICA POWDER | TWA | 2 mg/m ³ | Respirable dust. |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | TWA | 2 mg/m ³ | Respirable dust. |
| Finland. Workplace Exposure Limits | | | |
| Material | Type | Value | |
| GP-3I FUSED SILICA POWDER | TWA | 5 mg/m ³ | |
| Components | Type | Value | |
| Silica, vitreous (CAS 60676-86-0) | TWA | 5 mg/m ³ | |
| Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) | | | |
| Material | Type | Value | Form |
| GP-3I FUSED SILICA POWDER | TWA | 0,3 mg/m ³ | Respirable fraction. |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | TWA | 0,3 mg/m ³ | Respirable fraction. |
| Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace | | | |
| Material | Type | Value | Form |
| GP-3I FUSED SILICA POWDER | AGW | 0,3 mg/m ³ | Respirable fraction. |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | AGW | 0,3 mg/m ³ | Respirable fraction. |
| Iceland. OELs. Regulation 154/1999 on occupational exposure limits | | | |
| Material | Type | Value | Form |
| GP-3I FUSED SILICA POWDER | TWA | 0,1 mg/m ³ | Respirable dust. |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | TWA | 0,1 mg/m ³ | Respirable dust. |

Ireland. Occupational Exposure Limits

| Material | Type | Value | Form |
|-----------------------------------|------|------------|------------------|
| GP-3I FUSED SILICA POWDER | TWA | 0,08 mg/m3 | Respirable dust. |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | TWA | 0,08 mg/m3 | Respirable dust. |

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

| Material | Type | Value | Form |
|-----------------------------------|------|---------|------|
| GP-3I FUSED SILICA POWDER | TWA | 1 mg/m3 | |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | TWA | 1 mg/m3 | |

Norway. Administrative Norms for Contaminants in the Workplace

| Material | Type | Value | Form |
|-----------------------------------|------|-----------|------------------|
| GP-3I FUSED SILICA POWDER | TLV | 1,5 mg/m3 | Respirable dust. |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | TLV | 1,5 mg/m3 | Respirable dust. |

Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment

| Material | Type | Value | Form |
|-----------------------------------|------|---------|----------------------|
| GP-3I FUSED SILICA POWDER | TWA | 2 mg/m3 | Inhalable fraction. |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | TWA | 2 mg/m3 | Inhalable fraction. |
| | | 1 mg/m3 | Respirable fraction. |
| | | 1 mg/m3 | Respirable fraction. |

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

| Material | Type | Value | Form |
|-----------------------------------|------|-----------|------|
| GP-3I FUSED SILICA POWDER | TWA | 0,3 mg/m3 | |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | TWA | 0,3 mg/m3 | |

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

| Material | Type | Value | Form |
|-----------------------------------|------|-----------|----------------------|
| GP-3I FUSED SILICA POWDER | TWA | 0,3 mg/m3 | Respirable fraction. |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | TWA | 0,3 mg/m3 | Respirable fraction. |

Switzerland. SUVA Grenzwerte am Arbeitsplatz

| Material | Type | Value | Form |
|-----------------------------------|------|-----------|------------------|
| GP-3I FUSED SILICA POWDER | TWA | 0,3 mg/m3 | Respirable dust. |
| Components | Type | Value | Form |
| Silica, vitreous (CAS 60676-86-0) | TWA | 0,3 mg/m3 | Respirable dust. |

UK. EH40 Workplace Exposure Limits (WELs)

| Material | Type | Value | Form |
|---------------------------|------|------------|------------------|
| GP-3I FUSED SILICA POWDER | TWA | 0,08 mg/m3 | Respirable dust. |

UK. EH40 Workplace Exposure Limits (WELs)**Components****Type****Value****Form**

Silica, vitreous (CAS 60676-86-0)

TWA

0,08 mg/m³

Respirable dust.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

8.2. 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. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

Individual protection measures, such as personal protective equipment**General information**

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection**- Hand protection**

Wear appropriate chemical resistant gloves.

- Other

Wear suitable protective clothing.

Respiratory protection

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

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures**

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.

Environmental exposure controls

Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance****Physical state**

Solid.

Form

Powder.

Colour

Not available.

Odour

Not available.

Odour threshold

Not available.

pH

Not available.

Melting point/freezing point

1710 °C (3110 °F)

Initial boiling point and boiling range

2230 °C (4046 °F)

Flash point

Not available.

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

| | |
|--|--------------------------|
| Flammability limit - upper (%) | Not available. |
| Vapour pressure | < 0,0000001 kPa at 25 °C |
| Vapour density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Insoluble |
| Solubility (other) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Explosive properties | Not explosive. |
| Oxidising properties | Not oxidising. |

9.2. Other information

| | |
|--------------------------------------|-------------|
| Heat of combustion (NFPA 30B) | 0 kJ/g |
| Molecular formula | O2Si |
| Molecular weight | 60,09 g/mol |

SECTION 10: Stability and reactivity

| | |
|---|---|
| 10.1. Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| 10.2. Chemical stability | Material is stable under normal conditions. |
| 10.3. Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| 10.4. Conditions to avoid | Contact with incompatible materials. |
| 10.5. Incompatible materials | Fluorine. Chlorine. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure. |
| 10.6. Hazardous decomposition products | No hazardous decomposition products are known. |

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

| | |
|---------------------|---|
| Inhalation | Dust may irritate respiratory system. Prolonged inhalation may be harmful. |
| Skin contact | Dust or powder may irritate the skin. |
| Eye contact | Dust may irritate the eyes. |
| Ingestion | May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure. |

Symptoms Dusts may irritate the respiratory tract, skin and eyes.

11.1. Information on toxicological effects

| | |
|--|---|
| Acute toxicity | Not known. |
| Skin corrosion/irritation | Due to partial or complete lack of data the classification is not possible. |
| Serious eye damage/eye irritation | Due to partial or complete lack of data the classification is not possible. |
| Respiratory sensitisation | Due to partial or complete lack of data the classification is not possible. |
| Skin sensitisation | Due to partial or complete lack of data the classification is not possible. |
| Germ cell mutagenicity | Due to partial or complete lack of data the classification is not possible. |
| Carcinogenicity | Due to partial or complete lack of data the classification is not possible. |

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - single exposure Due to partial or complete lack of data the classification is not possible.

| | |
|---|---|
| Specific target organ toxicity - repeated exposure | Due to partial or complete lack of data the classification is not possible. |
| Aspiration hazard | Due to partial or complete lack of data the classification is not possible. |
| Mixture versus substance information | No information available. |
| Other information | Not available. |

SECTION 12: Ecological information

| | |
|--|---|
| 12.1. Toxicity | Due to partial or complete lack of data the classification for hazardous to the aquatic environment, is not possible. |
| 12.2. Persistence and degradability | No data is available on the degradability of this product. |
| 12.3. Bioaccumulative potential | No data available. |
| Partition coefficient n-octanol/water (log Kow) | Not available. |
| Bioconcentration factor (BCF) | Not available. |
| 12.4. Mobility in soil | No data available. |
| 12.5. Results of PBT and vPvB assessment | Not available. |
| 12.6. Other adverse effects | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|-------------------------------|----------------|
| Residual waste | Not available. |
| Contaminated packaging | Not available. |
| EU waste code | Not available. |

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use

Not regulated.

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

Not available.

Full text of any H-statements not written out in full under Sections 2 to 15

None.

Revision information

Product and Company Identification: Product and Company Identification
Composition / Information on Ingredients: Disclosure Overrides
Regulatory Information: United States

Training information

Not available.

Disclaimer

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.