

# SAFETY DATA SHEET

**TUNNEL-GEL®** 

Revision date: 25-Mar-2024

Revision Number: 13

### Section 1: Identification: Product identifier and chemical identity

| Product identifier   |  |  |  |
|--|--|--|--|
| Product Name   | TUNNEL-GEL®  |  |  |
| Product Code(s)  | HM003886   |  |  |
| Other means of identification  |  |  |  |
| Pure substance/mixture   | Mixture  |  |  |
| <u>Recommended use of the chemica</u><br>Recommended use<br>Uses advised against   | <u>I and restrictions on use</u><br>Additive<br>No information available.                    |  |  |
| Details of manufacturer or importer<br>Halliburton Australia Pty. Ltd.<br>15 Marriott Road, Jandakot, WA 6164<br>Australia<br>ACN Number: 009 000 775<br>Telephone Number: + 61 (08) 6424 4800 |  |  |  |
| For further information, please contact  |  |  |  |
| Emergency telephone number   |  |  |  |
| Australia Emergency Telephone<br>Number  | + 61 1 800 686 951<br>Global Incident Response Access Code: 334305<br>Contract Number: 14012 |  |  |
| Australian Poisons Information<br>Centre   | 24 Hour Service: - 13 11 26<br>Police or Fire Brigade: - 000 (exchange): - 1100              |  |  |

# Section 2: Hazard(s) identification

| Hazardous according to the criteria of the 7th Revised Edition of the Globally Harmonised<br>System of Classification and Labelling of Chemicals (GHS), Non-Dangerous Goods<br>according to the criteria of ADG. |
|--|
| according to the chiena of ADG.  |

| GHS Classification                                 |             |
|--|-------------|
| Carcinogenicity                                    | Category 1A |
| Specific target organ toxicity — repeated exposure | Category 2  |

Label elements



Signal word DANGER

#### Hazard statements

May cause cancer. May cause damage to organs through prolonged or repeated exposure.

#### **Precautionary Statements - Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection. Do not breathe dust/fume/gas/mist/vapours/spray. **Precautionary Statements - Response** IF exposed or concerned: Get medical advice/attention. **Precautionary Statements - Storage** Store locked up. **Precautionary Statements - Disposal** 

Dispose of contents/container to an approved waste disposal plant.

## Other hazards which do not result in classification

No information available.

### Section 3: Composition/information on ingredients

| Chemical name              | CAS No.     | Weight-% |
|----------------------------|-------------|----------|
| Crystalline silica, quartz | 14808-60-7  | 5 - 10%  |
| Non-hazardous ingredients  | Proprietary | Balance  |

### Section 4: First aid measures

#### Description of first aid measures

| General advice  | IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.   |  |
|---|---|--|
| Inhalation  | Remove to fresh air.  |  |
| Eye contact   | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor. |  |
| Skin contact  | Wash skin with soap and water.  |  |
| Ingestion   | Rinse mouth.  |  |
| Most important symptoms and effects, both acute and delayed |   |  |
|   |   |  |
| Symptoms  | No information available.   |  |
| Effects of Exposure   | No information available.   |  |

#### Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

| Section 5: Firefighting measures                               |   |  |
|--|---|--|
| Suitable Extinguishing Media                                   |   |  |
| Suitable extinguishing media                                   | All standard fire fighting media.   |  |
| Large Fire   | CAUTION: Use of water spray when fighting fire may be inefficient.  |  |
| Unsuitable extinguishing media                                 | Do not scatter spilled material with high pressure water streams.   |  |
| Specific hazards arising from the chemical                     |   |  |
| Specific hazards arising from the chemical                     | No information available.   |  |
| Chemical   | Amorphous silica may transform at elevated temperatures to tridymite (870 C) or cristobalite (1470 C).                                |  |
| Special protective actions for fire-fighters                   |   |  |
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.<br>Use personal protection equipment. |  |

### Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

| Personal precautions                                 | Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. |  |
|--|---|--|
| Other information                                    | Refer to protective measures listed in Sections 7 and 8.  |  |
| For emergency responders                             | Use personal protection recommended in Section 8.   |  |
| Environmental precautions                            |   |  |
| Environmental precautions                            | See Section 12 for additional Ecological Information.   |  |
| Methods and material for containment and cleaning up |   |  |
| Methods for containment                              | Prevent further leakage or spillage if safe to do so.   |  |
|  |   |  |

#### Precautions to prevent secondary hazards

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### Section 7: Handling and storage, including how the chemical may be safely used

#### Precautions for safe handling

| Advice on safe handling        | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation.                          |
|--------------------------------|---|
| General hygiene considerations | If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an |

industrial hygienist or other qualified professional based on the specific application of this product. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

#### Conditions for safe storage, including any incompatibilities

| Storage Conditions     | Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Do not reuse empty container. |
|------------------------|---|
| Incompatible materials | Hydrofluoric acid.  |

### Section 8: Exposure controls and personal protection

#### Control parameters

#### **Exposure Limits**

| Chemical name              | Australia                   | New Zealand                 | ACGIH TLV |
|----------------------------|-----------------------------|-----------------------------|-----------|
| Crystalline silica, quartz | TWA: 0.05 mg/m <sup>3</sup> | TWA: 0.05 mg/m <sup>3</sup> | -         |
| 14808-60-7                 |                             |                             |           |

| Chemical name                            | OSHA PEL  | NIOSH   |
|--|---|---|
| Crystalline silica, quartz<br>14808-60-7 | TWA: 50 µg/m <sup>3</sup><br>(vacated) TWA: 0.1 mg/m <sup>3</sup> respirable<br>dust<br>: (250)/(%SiO2 + 5) mppcf TWA<br>respirable fraction<br>: (10)/(%SiO2 + 2) mg/m <sup>3</sup> TWA<br>respirable fraction | IDLH: 50 mg/m <sup>3</sup> respirable dust<br>TWA: 0.05 mg/m <sup>3</sup> respirable dust |

| Biological occupational exposure limits                               | This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies   |  |
|---|---|--|
| Appropriate engineering controls                                      |   |  |
| Engineering controls  | Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits.   |  |
| Individual protection measures, such as personal protective equipment |   |  |
| Eye/face protection   | Wear safety glasses or goggles to protect against exposure.   |  |
| Skin and body protection  | Wear clothing appropriate for the work environment. Dusty clothing should be laundered before reuse. Use precautionary measures to avoid creating dust when removing or laundering clothing. Wear suitable protective clothing. |  |
| Hand protection   | Normal work gloves. Wear suitable gloves.   |  |
| Respiratory protection  | Not normally needed. But if significant exposures are possible then the following respirator is recommended: Dust/mist respirator. (N95, P2/P3).  |  |
| Environmental exposure controls                                       | No information available.   |  |
| Other protective equipment  | None known.   |  |
| Thermal hazards   | No information available.   |  |

### Section 9: Physical and chemical properties

#### Information on basic physical and chemical properties

| Physical state<br>Appearance<br>Colour<br>Odour<br>Odour threshold | Solid<br>No information available<br>Various<br>Odourless.<br>No information available |          |
|--|--|----------|
| Property_  | Values   | <u>R</u> |
| рН   | 9.9  | N        |
| Melting point / freezing point                                     | No data available  |          |
| Initial boiling point and boiling rang                             | e  |          |
| Flash point  | No data available  | N        |
| Evaporation rate   | No data available  |          |
| Flammability   | No data available  |          |
| Flammability Limit in Air  |  |          |
| Upper flammability or explosive                                    | No data available  |          |
| limits   |  |          |
| Lower flammability or explosive                                    | No data available  |          |
| limits   |  |          |
| Vapour pressure  | No data available  |          |
| Relative vapour density  | No data available  |          |
| Relative density   | 2.65   |          |
| Water solubility   | Insoluble in water   |          |
| Solubility(ies)  | No data available  |          |
| Partition coefficient  | No data available  |          |
| Autoignition temperature   | No data available  |          |
| Decomposition temperature  | No data available  |          |
| Kinematic viscosity  |  |          |
| Dynamic viscosity  | No data available  |          |
| Other information<br>VOC content                                   | No information available   |          |
| Particle characteristics   | No information available   |          |
|  |  |          |

# Section 10: Stability and reactivity

| Reactivity  |   |
|---|---|
| Reactivity  | No information available.                 |
| Chemical stability  |   |
| Stability   | Stable under normal conditions.           |
| Explosion data<br>Sensitivity to mechanical impact<br>Sensitivity to static discharge | None.<br>None.                            |
| Possibility of hazardous reactions  |   |
| Possibility of hazardous reactions  | None under normal processing.             |
| Conditions to avoid   |   |
| Conditions to avoid   | None known based on information supplied. |
| Incompatible materials  |   |
| Incompatible materials  | Hydrofluoric acid.                        |

Remarks • Method None known

None known

Hazardous decomposition products

Hazardous decomposition products Amorphous silica may transform at elevated temperatures to tridymite (870 C) or cristobalite (1470 C).

### Section 11: Toxicological information

Information on likely routes of exposure

Principle Route of ExposureEye or skin contact, inhalation, Ingestion, Skin contact, Eye contact, InhalationProduct InformationSpecific test data for the substance or mixture is not available.Eye contactSpecific test data for the substance or mixture is not available.Skin contactSpecific test data for the substance or mixture is not available.IngestionSpecific test data for the substance or mixture is not available.SymptomsNo information available.

Acute toxicity \_.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

| ATEmix (oral)                 | 99,999.00 |       |
|-------------------------------|-----------|-------|
| ATEmix (dermal)               | 99,999.00 | mg/kg |
| ATEmix (inhalation-gas)       | 99,999.00 | ppm   |
| ATEmix (inhalation-vapour)    | 99,999.00 | mg/l  |
| ATEmix (inhalation-dust/mist) | 99,999.00 | mg/l  |

#### **Component Information**

| Chemical name              | Oral LD50             | Dermal LD50 | Inhalation LC50 |
|----------------------------|-----------------------|-------------|-----------------|
| Crystalline silica, quartz | > 15000 mg/kg (human) | -           | -               |

See section 16 for terms and abbreviations

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

| Skin corrosion/irritation                | No information available.  |
|--|----------------------------|
| Chemical name                            | Skin corrosion/irritation  |
| Crystalline silica, quartz<br>14808-60-7 | Non-irritating to the skin |

Serious eye damage/eye irritation No information available.

| Chemical name              | Serious eye damage/eye irritation |
|----------------------------|-----------------------------------|
| Crystalline silica, quartz | Non-irritating to the eye         |
| 14808-60-7                 |                                   |

#### **Respiratory or skin sensitisation** No information available.

| Chemical name              | Respiratory sensitisation |
|----------------------------|---------------------------|
| Crystalline silica, quartz | Not classified            |
| 14808-60-7                 |                           |
| Chemical name              | Skin sensitisation        |

| Crystalline silica, quartz              | Not classified |
|---|----------------|
| , |                |
| 14808-60-7                              |                |

| Germ cell mutagenicity     | No information available.  |
|----------------------------|----------------------------|
| Chemical name              | Germ cell mutagenicity     |
| Crystalline silica, quartz | Not regarded as mutagenic. |
| 14808-60-7                 |                            |

| Carcinogenicity            | Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer. No information available. |
|----------------------------|---|
| Chemical name              | Carcinogenicity   |
| Crystalline silica, quartz | Contains crystalline silica which may cause silicosis, a delayed and progressive lung   |
| 14808-60-7                 | disease. The IARC and NTP have determined there is sufficient evidence in humans of the   |
|                            | carcinogenicity of crystalline silica with repeated respiratory exposure.   |

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name                           | Australia | European Union | IARC    |
|---|-----------|----------------|---------|
| Crystalline silica, quartz - 14808-60-7 | Carc. 1A  | -              | Group 1 |

#### Legend

#### IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

| Reproductive toxicity                    | No information available.   |
|--|---|
| Chemical name                            | Reproductive toxicity   |
| Crystalline silica, quartz<br>14808-60-7 | This product does not contain any known or suspected reproductive hazards |

| STOT - single exposure                   | No information available.   |
|--|---|
| Chemical name                            | STOT - single exposure  |
| Crystalline silica, quartz<br>14808-60-7 | No significant toxicity observed in animal studies at concentration requiring classification. |

| STOT - repeated exposure                 | May cause damage to organs through prolonged or repeated exposure. No information available. |
|--|--|
| Chemical name                            | STOT - repeated exposure   |
| Crystalline silica, quartz<br>14808-60-7 | Causes damage to organs through prolonged or repeated exposure if inhaled: (Lungs)           |

| Aspiration hazard                        | No information available.  |
|--|--|
| Chemical name                            | Aspiration hazard  |
| Crystalline silica, quartz<br>14808-60-7 | Based on available data, the classification criteria are not met |

### Section 12: Ecological information

**Ecotoxicity** 

Aquatic ecotoxicity

Unknown aquatic toxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

| Chemical name              | Algae/aquatic plants | Fish                 | Toxicity to    | Crustacea             |
|----------------------------|----------------------|----------------------|----------------|-----------------------|
|                            |                      |                      | microorganisms |                       |
| Crystalline silica, quartz | EC50(72 h)=440 mg/L  | LL0(96 h)=10000 mg/L | -              | LL50(24 h)>10000 mg/L |
|                            | (Pseudokirchneriella | (Danio rerio)        |                | (Daphnia magna)       |
|                            | subcapitata)         |                      |                |                       |

#### **Terrestrial ecotoxicty**

There is no data for this product.

#### Persistence and degradability No information available

| Chemical name              | Persistence and degradability                        |
|----------------------------|--|
| Crystalline silica, quartz | The methods for determining biodegradability are not |
| 14808-60-7                 | applicable to inorganic substances.                  |

#### **Bioaccumulation**

No information available.

| <u>Mobility</u> | No information available          |                          |
|-----------------|-----------------------------------|--------------------------|
| Ch              | emical name                       | Mobility                 |
| Crysta          | line silica, quartz<br>14808-60-7 | No information available |

#### Other adverse effects

| Section 13: Disposal considerations |  |
|-------------------------------------|--|
| Disposal methods                    |  |

 Waste from residues/unused products
 Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

See section 8 for more information

| Section 14: Transport information |               |  |
|-----------------------------------|---------------|--|
| ADG                               | Not regulated |  |
| ΙΑΤΑ                              | Not regulated |  |
| IMDG                              | Not regulated |  |

Transport in bulk according to Annex II of MARPOL and the IBC Code No information available

### Section 15: Regulatory information

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

#### National regulations

#### <u>Australia</u>

See section 8 for national exposure control parameters

#### Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) No poisons schedule number allocated

#### Australian Industrial Chemicals Introduction Scheme (AICIS)

|  | Australian<br>Industrial<br>Chemicals<br>Introduction<br>Scheme<br>(AICIS) | Crystalline silica, quartz -<br>14808-60-7 |
|--|--|--|
| Contact supplier for inventory compliance status | -  |  |

#### Illicit Drug Precursors/Reagents

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

| International Inventories |  |
|---------------------------|--|
| TSCA                      | All components listed on inventory or are exempt |
| AIIC                      | All components listed on inventory or are exempt |
| NZIOC                     | All components listed on inventory or are exempt |

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **AIIC** - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal Not applicable

#### Section 16: Any other relevant information

Revision date 25-Mar-2024

Reason for revision Update to Format

#### Key or legend to abbreviations and acronyms used in the safety data sheet

ADR - The European Agreement concerning the International Carriage of Dangerous Goods by Road

bw - body weight

CAS – Chemical Abstracts Service

CLP – REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on Classification, Labelling and Packaging of substances and mixtures

EN 149 - European standard on filtering halfmasks to protect against particles

FFP - Filtering Facepieces

h - hour

STEL (Short Term Exposure Limit)

Skin designation

IBC Code - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk LL50 – Lethal Loading 50% d - dav Derived No Effect Level (DNEL) EC - European Commission EC10 – Effective Concentration 10% EC50 – Effective Concentration 50% EEC – European Economic Community IATA/ICAO - International Air Transport Association / International Civil Aviation Organization IMDG/IMO - International Maritime Dangerous Goods / International Maritime Organization LC50 – Lethal Concentration 50% LD50 – Lethal Dose 50% NTP - National Toxicology Program OEL - Occupational Exposure Limit PEL – Permissible Exposure Limit ppm - parts per million REACH – REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals VOC – Volatile Organic Carbon UN – United Nations VLA-EC - short-time excursion limits [Spain valores límite ambientales para la exposición de corta duración] vPvB - very Persistent and very Bioaccumulative w/w - weight/weight Water hazard class (WGK) UN - United Nations VOC - Volatile Organic Carbon TWA - Time-Weighted Average STEL - Short Term Exposure Limit Legend Section 8: Exposure controls/personal protection

| Logona  | economic Expectate controlo/percental protection |      |
|---------|--|------|
| TŴĂ     | TWA (time-weighted average)                      | STEL |
| Ceiling | Maximum limit value                              | Sk*  |
| +       | Sensitisers                                      |      |

#### Key literature references and sources for data used to compile the SDS

Acute Exposure Guideline Level(s) (AEGL(s)) European Chemicals Agency (ECHA) (ECHA\_API) European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC) Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) NIOSH (National Institute for Occupational Safety and Health)

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**End of Safety Data Sheet**