

# 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> Recommended use Uses advised against	<u>I and restrictions on use</u> Additive No information available.		
Details of manufacturer or importer Halliburton Australia Pty. Ltd. 15 Marriott Road, Jandakot, WA 6164 Australia ACN Number: 009 000 775 Telephone Number: + 61 (08) 6424 4800			
For further information, please contact			
Emergency telephone number			
Australia Emergency Telephone Number	+ 61 1 800 686 951 Global Incident Response Access Code: 334305 Contract Number: 14012		
Australian Poisons Information Centre	24 Hour Service: - 13 11 26 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 System of Classification and Labelling of Chemicals (GHS), Non-Dangerous Goods 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. 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 14808-60-7	TWA: 50 µg/m <sup>3</sup> (vacated) TWA: 0.1 mg/m <sup>3</sup> respirable dust : (250)/(%SiO2 + 5) mppcf TWA respirable fraction : (10)/(%SiO2 + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust 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 Appearance Colour Odour Odour threshold	Solid No information available Various Odourless. 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 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 Sensitivity to mechanical impact Sensitivity to static discharge	None. 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 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
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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 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 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 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 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 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 Industrial Chemicals Introduction Scheme (AICIS)	Crystalline silica, quartz - 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**