



Issue Date: May 2022

SDS No: 772  
Version: V.0.0.2

## Telchem SpaCare B +

Telford Industries

Safety Data Sheet according to WHS and ADG requirements

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

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#### Product Identifier

Product name	Telchem SpaCare B +
Chemical Name	SODIUM BICARBONATE
Synonyms	Sodium hydrogen carbonate; Baking soda; Bicarbonate of soda; Sodium acid carbonate
Proper shipping name	Not Applicable
Chemical formula	NaHCO <sub>3</sub>
Other means of identification	Not Available

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses	Increases Total Alkalinity, Improves Clarity
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#### Details of the supplier of the safety data sheet

Company Name	Telford Industries
Address	7 Valentine Street Kewdale WA 6105 Australia
Telephone	+61 8 9353 2053
Website	<a href="https://www.telfordindustries.com.au/">https://www.telfordindustries.com.au/</a>
Email	info@telfordindustries.com.au

#### Emergency telephone number

Association/Organisation	Not Available
Emergency telephone numbers	1800 429 628
Other Emergency telephone numbers	1800 HAZMAT

### SECTION 2 HAZARDS IDENTIFICATION

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#### Classification of the substance or mixture

**NOT HAZARDOUS CHEMICAL. NOT DANGEROUS GOODS.** According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
Classification	Not Applicable

#### Label Elements

GHS label elements	Not Applicable
SIGNAL WORD	Not Applicable



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**Hazard statement(s)**

Not Applicable

**Precautionary statement(s) Prevention**

Not Applicable

**Precautionary statement(s) Response**

Not Applicable

**Precautionary statement(s) Storage**

Not Applicable

**Precautionary statement(s) Disposal**

Not Applicable

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

**Substances**

CAS No	% [weight]	Name
144-55-8	>99	sodium bicarbonate

**SECTION 4 FIRST AID MEASURES**

**Description of first aid measures**

<b>Eye Contact</b>	If this product comes in contact with the eyes: <ul style="list-style-type: none"><li>&gt; Immediately hold eyelids apart and flush the eye continuously with running water.</li><li>&gt; Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li><li>&gt; Transport to hospital or doctor without delay.</li><li>&gt; Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li></ul>
<b>Skin Contact</b>	If skin or hair contact occurs: <ul style="list-style-type: none"><li>&gt; Immediately flush body and clothes with large amounts of water, using safety shower if available.</li><li>&gt; Quickly remove all contaminated clothing, including footwear.</li><li>&gt; Transport to hospital, or doctor.</li></ul>
<b>Inhalation</b>	<ul style="list-style-type: none"><li>&gt; If fumes or combustion products are inhaled remove from contaminated area.</li><li>&gt; Transport to hospital, or doctor if necessary.</li></ul>
<b>Ingestion</b>	<ul style="list-style-type: none"><li>&gt; Immediately give a glass of water.</li><li>&gt; First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li></ul>

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

Treat symptomatically.

**SECTION 5 FIREFIGHTING MEASURES**

**Extinguishing Media**

- > There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.

**Special hazards arising from the substrate or mixture**

<b>Fire Incompatibility</b>	None known.
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**Advice for firefighters**

<b>Fire Fighting</b>	<ul style="list-style-type: none"> <li>➤ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>➤ Wear full body protective clothing with breathing apparatus.</li> <li>➤ Prevent, by any means available, spillage from entering drains or water course.</li> </ul>
<b>Fire/Explosion Hazard</b>	<ul style="list-style-type: none"> <li>➤ The material is not readily combustible under normal conditions.</li> <li>➤ Not considered to be a significant fire risk.</li> </ul> <p>Decomposes on heating and produces acrid and toxic fumes of:</p> <ul style="list-style-type: none"> <li>➤ carbon monoxide (CO)</li> <li>➤ carbon dioxide (CO<sub>2</sub>)</li> </ul> <p>May emit corrosive fumes.</p> <p>Decomposes on heating to produce water vapour and sodium carbonate.</p>
<b>HAZCHEM</b>	Not Applicable

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

See section 8

**Environmental precautions**

See section 12

**Methods and material for containment and cleaning up**

<b>Minor Spills</b>	<ul style="list-style-type: none"> <li>➤ Clean up all spills immediately.</li> <li>➤ Avoid contact with skin and eyes.</li> <li>➤ Control personal contact with the substance, by using protective equipment.</li> <li>➤ Use dry clean up procedures and avoid generating dust.</li> <li>➤ Place in a suitable, labeled container for waste disposal.</li> <li>➤ Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.</li> </ul>
<b>Major Spills</b>	<ul style="list-style-type: none"> <li>➤ Clear area of personnel and move upwind.</li> <li>➤ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>➤ Wear full body protective clothing with breathing apparatus.</li> <li>➤ Prevent, by any means available, spillage from entering drains or water course.</li> <li>➤ Consider evacuation (or protect in place).</li> <li>➤ Collect recoverable product into labelled containers for recycling.</li> <li>➤ Neutralize/decontaminate residue (see Section 13 for specific agent).</li> <li>➤ Collect solid residues and seal in labelled drums for disposal.</li> <li>➤ Wash area and prevent runoff into drains.</li> <li>➤ After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.</li> <li>➤ If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

**SECTION 7 HANDLING AND STORAGE**

**Precautions for safe handling**

<b>Safe handling</b>	<ul style="list-style-type: none"> <li>➤ Avoid all personal contact, including inhalation.</li> <li>➤ Wear protective clothing when risk of exposure occurs.</li> <li>➤ <u>When handling DO NOT eat, drink or smoke.</u></li> <li>➤ Keep containers securely sealed when not in use.</li> </ul>
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	<ul style="list-style-type: none"> <li>➤ Work clothes should be laundered separately. Use good occupational work practice.</li> <li>➤ Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained</li> </ul>
<b>Other Information</b>	<ul style="list-style-type: none"> <li>➤ Store in original containers.</li> <li>➤ Store in a cool, dry, well-ventilated area.</li> <li>➤ Store away from incompatible materials and foodstuff containers.</li> <li>➤ Protect containers against physical damage and check regularly for leaks.</li> <li>➤ DO NOT store near acids, or oxidising agents</li> <li>➤ No smoking, naked lights, heat or ignition sources.</li> </ul>

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

<b>Suitable Container</b>	<ul style="list-style-type: none"> <li>➤ Lined metal can, lined metal pail/ can.</li> <li>➤ Plastic pail.</li> <li>➤ Polyliner</li> <li>➤ Drum</li> <li>➤ Packing as recommended by manufacturer.</li> <li>➤ Check all containers are clearly labelled and free from leaks.</li> </ul>
<b>Storage Incompatibility</b>	<ul style="list-style-type: none"> <li>➤ Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.</li> <li>➤ Segregate from monoammonium phosphate and strong oxidisers.</li> <li>➤ Reacts rapidly with acidic materials, generates carbon dioxide gas, which may pressurise, even violently rupture containers.</li> </ul>

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

**OCCUPATIONAL EXPOSURE LIMITS (OEL)**

**INGREDIENT DATA**

Not Available.


**EMERGENCY LIMITS**

Ingredient	Material Name	TEEL-1	TEEL-2	TEEL-3
sodium bicarbonate	sodium bicarbonate	13 mg/m3	140 mg/m3	840 mg/m3

Ingredient	Original IDLH	Revised IDLH
sodium bicarbonate	Not Available	Not Available

**MATERIAL DATA**

**Exposure controls**

<b>Appropriate engineering controls</b>	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.
<b>Personal Protection</b>	
<b>Eye and Face protection</b>	<ul style="list-style-type: none"> <li>➤ Safety glasses with imperforated side shields may be used where continuous eye protection is desirable, as in laboratories; spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure.</li> <li>➤ Chemical goggle. whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted.</li> </ul>



Issue Date: May 2022

SDS No: 772  
Version: V.0.0.2

	<ul style="list-style-type: none"> <li>➤ Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes.</li> <li>➤ Alternatively a gas mask may replace splash goggles and face shields.</li> </ul>
<b>Skin protection</b>	See Hand protection below
<b>Hands/feet protection</b>	<ul style="list-style-type: none"> <li>➤ Elbow length PVC gloves</li> <li>➤ When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.</li> <li>➤ Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.</li> </ul>
<b>Body protection</b>	See Other protection below
<b>Other protection</b>	<ul style="list-style-type: none"> <li>➤ Overalls.</li> <li>➤ PVC Apron.</li> <li>➤ PVC protective suit may be required if exposure severe.</li> <li>➤ Eyewash unit.</li> <li>➤ Ensure there is ready access to a safety shower.</li> </ul>
<b>Thermal hazards</b>	Not Available

### Respiratory protection

Type B-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	Crystalline Powder		
<b>Physical state</b>	Solid	<b>pH as a Solution</b>	8.4 (1% aqueous solution)
<b>Odour</b>	Not Available	<b>Molecular Weight (g/mole)</b>	84
<b>Odour threshold</b>	Not Available	<b>Flammability</b>	Not Applicable
<b>Relative density (water=1)</b>	2.16	<b>Upper Explosive Limit (%)</b>	Not Applicable
<b>Colour</b>	White	<b>Lower Explosive Limit (%)</b>	Not Applicable
<b>pH (as supplied)</b>	Not Applicable	<b>Vapour pressure (kPa)</b>	Not Available
<b>Melting point/Freezing point (°C)</b>	Starts to decompose at about 70°C	<b>Solubility in water (g/L)</b>	Soluble
<b>Initial boiling point and boiling range (°C)</b>	Starts to decompose at about 70°C	<b>Vapour density (Air = 1)</b>	Not Available

## SECTION 10 STABILITY AND REACTIVITY

<b>Reactivity</b>	See section 7
<b>Chemical stability</b>	<ul style="list-style-type: none"> <li>➤ Unstable in the presence of incompatible materials.</li> <li>➤ Product is considered stable.</li> <li>➤ Hazardous polymerisation will not occur.</li> </ul>
<b>Possibility of hazardous reactions</b>	See section 7
<b>Conditions to avoid</b>	See section 7
<b>Incompatible materials</b>	See section 7
<b>Hazardous decomposition products</b>	See section 5

**SECTION 11 TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

<b>Inhaled</b>	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).
<b>Ingestion</b>	Although ingestion is not thought to produce harmful effects (as classified under EC Directives), the material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident.
<b>Skin Contact</b>	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. The material may produce mild skin irritation;
<b>Eye</b>	Limited evidence or practical experience suggests that the material may cause eye irritation in a substantial number of individuals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.
<b>Chronic</b>	Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

<b>Product Name</b>	<b>TOXICITY</b>	<b>IRRITATION</b>
<b>Sodium bicarbonate</b>	Oral (rat) LD50: >4000 mg/kg <sup>1</sup>	Eye (rabbit): 100 mg rinse - mild

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. \* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

<b>Sodium bicarbonate</b>	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. Oral (human-infant) TDL: 1260 mg/kg Skin (human): 30 mg/3d-I-mild
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<b>Acute Toxicity</b>	✗	<b>Carcinogenicity</b>	⊖
<b>Skin Irritation/Corrosion</b>	⊖	<b>Reproductivity</b>	⊖
<b>Serious Eye Damage/Irritation</b>	⊖	<b>STOT – single exposure</b>	⊖
<b>Respiratory or Skin sensitisation</b>	⊖	<b>STOT – repeated exposure</b>	⊖
<b>Mutagenicity</b>	⊖	<b>Aspiration Hazard</b>	⊖

Legend: ✗ – Data available but does not fill the criteria for classification  
 ✓ – Data required to make classification available  
 ⊖ – Data Not Available to make classification

**SECTION 12 ECOLOGICAL INFORMATION**

**Toxicity**

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
sodium bicarbonate	LC50	96	Fish	658.217mg/L	3
sodium bicarbonate	EC50	48	Crustacean	=2350mg/L	1
sodium bicarbonate	EC50	96	Algae or other aquatic plants	650mg/L	4
sodium bicarbonate	EC50	4	Algae or other aquatic plants	52mg/L	4
sodium bicarbonate	NOEC	504	Crustacean	576mg/L	4
<b>Legend:</b>	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				



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Version: V.0.0.2

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium bicarbonate	LOW	LOW

#### Bio accumulative potential

Ingredient	Bioaccumulation
sodium bicarbonate	LOW (Log KOW = -0.4605)

#### Mobility in Soil

Ingredient	Mobility
sodium bicarbonate	HIGH (KOC = 1)

### SECTION 13 DISPOSAL CONSIDERATIONS

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#### Waste treatment methods

Product/Packaging disposal	<ul style="list-style-type: none"><li>➤ Containers may still present a chemical hazard/ danger when empty.</li><li>➤ Return to supplier for reuse/recycling if possible.</li><li>➤ <b>DO NOT allow wash water from cleaning or process equipment to enter drains.</b></li><li>➤ In all cases disposal to sewer may be subject to local laws and regulations.</li><li>➤ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li><li>➤ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li></ul>
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### SECTION 14 TRANSPORT INFORMATION

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#### Labels Required

Not Applicable

#### Land transport (ADG), Air transport (ICAO-IATA / DGR), Sea transport (IMDG-Code / GGVSee)

Not Applicable

#### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### SECTION 15 REGULATORY INFORMATION

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

SODIUM BICARBONATE (144-55-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (sodium bicarbonate)



Issue Date: May 2022

SDS No: 772  
Version: V.0.0.2

China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Y
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	<p>Y = All ingredients are on the inventory</p> <p>N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)</p>

## SECTION 16 OTHER INFORMATION

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### Definitions and abbreviations

Name	CAS No		
<b>PC – TWA</b>	Permissible Concentration-Time Weighted Average	<b>PC – STEL</b>	Permissible Concentration-Short Term Exposure Limit
<b>IARC</b>	International Agency for Research on Cancer	<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>STEL</b>	Short Term Exposure Limit	<b>TEEL</b>	Temporary Emergency Exposure Limit
<b>IDLH</b>	Immediately Dangerous to Life or Health Concentrations	<b>OSF</b>	Odour Safety Factor
<b>NOAEL</b>	No Observed Adverse Effect Level	<b>LOAEL</b>	Lowest Observed Adverse Effect Level
<b>TLV</b>	Threshold Limit Value	<b>LOD</b>	Limit Of Detection
<b>OTV</b>	Odour Threshold Value	<b>BCF</b>	BioConcentration Factors
<b>BEI</b>	Biological Exposure Index		

**END OF SDS**