



Product Identification

Product name	TecSand™
Other designations	Glass, glass fines, crushed glass
Description	Cleaned, crushed, graded, recycled glass sand
General use	The product is manufactured in accordance with the guidelines specified by the DECC (Dept of Climate Change) and used for abrasives blasting, turf additive, and as a raw material in many end products.
Manufacturer Information	Colmax Glass Pty Ltd; 5040 Old Northern Road, Maroota, NSW 2756 02) 4566 8114

Hazard Identification

Statement of hazardous nature	<p>Nuisance dust concern only.</p> <p>Non-hazardous substance, non-dangerous goods according to:</p> <ul style="list-style-type: none"> - NOHSC (National Occupational, Health and Safety Commission); - ADG Code (Australian Dangerous Goods transport code); - US OSHA (Occupational Safety and Health Standard) Hazard Communication Standard, Title 29, Section 1910.1200. <p>Contains no free (or crystalline) silica.</p> <p>Glass particles are chemically inert and may be regarded as having no specific toxicological effects. In high concentrations glass particles may cause some mechanical damage (i.e. abrasion).</p> <p>Nuisance dust (total): 10mg/m³ TLV; (respirable): 5mg/m³ TLV.</p>
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Health Effects

Eyes	Physical irritant 'foreign body' effects as with all dust, causing temporary irritation or inflammation.
Skin	Healthy skin is not susceptible to irritant effects from inert grit, but perspiration combined with rubbing may produce skin irritation.
Inhalation	No reports of adverse effects in humans. No significant gross change detected in laboratory animals.
Ingestion	Simple physical irritant.
Chronic exposure	There is no data to suggest that long-term exposure to glass particles induces adverse health impacts. However long-term exposure to high dust concentrations of any kind may cause changes in lung function. While glass dust is not recognised as causing serious pathological conditions, the concentration of exposure should be kept to a minimum.

First-Aid Measures

Eyes	Irrigate/flush with water. Do not rub or scratch. If symptoms persist, seek medical advice.
Skin	Wash under running water. Treat grazes/cuts with antiseptic and cover.
Inhalation	Generated dust may produce temporary upper respiratory irritation. Remove to fresh air and blow nose to clear nasal passages.
Ingestion	No action considered necessary. Do not induce vomiting. If pre-existing gastro-intestinal or other medical condition exists, obtain medical advice.
Advice to doctor	Mechanical/physical irritant with no expected resultant health effects. Treat symptomatically to remove the source of irritation.



Composition

Ingredients	Soda lime silica glass, with the following chemical composition:
	Bound amorphous silica (SiO ₂) 70-80%
	Bound metal oxides (Na, K, Li, Ca, Mg, Al) 20-30%
	Other metal oxides 0-1%
	May contain small amounts of paper or plastic fragments.
	Contains no free crystalline silica.

Handling & Storage

Handling	No special handling requirements.
Transport	No special transport; not classified as Dangerous Goods.
Storage	No special storage precautions.
Spills	Sweep/shovel up.
Disposal	Normally suitable for disposal at approved land-fill or clean-fill sites. Dispose of according to federal, state and local regulations.

Fire-Fighting Measures

Flammability	Non-flammable, non-combustible and non-hazardous inorganic material.
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Exposure controls / personal protection

General	For general handling provide goggles, dust mask and leather or fabric gloves. Plastic apron, sleeves and boots may be used.
Blasting	When blasting, the following Australian Standards must be followed: AS/NZS 1337 & 1338 (eye protection), AS/NZS 1715 & 1716 (respiratory devices), AS 2210 (foot protection), AS 2375 (protective clothing), AS/NZS 1270 (hearing protection).

Physical & Chemical Properties

Appearance	Can be colourless, mixed amber, mixed green, or blue. Odourless, inorganic solid most closely resembling beach sand.
Boiling point	NA
Melting point	>800°C
Vapour pressure	NA
Specific gravity	2.5 approximately (water = 1.0)
Flashpoint	NA
Flammability limits	NA
Solubility in water	Insoluble

Stability & Reactivity

Stability	Stable.
Polymerization	Hazardous polymerization will not occur.
Decomposition	No hazardous decomposition products.

Ecological Information

Leachability	Negligible leachate as determined by the Toxicity Characteristics Leaching Procedure (TCLP) test.
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