

**1 IDENTIFICATION OF THE PRODUCT AND OF THE SUPPLIER**

<b>Product Name</b>	<b>ALPHA GRIP</b>
<b>Hazard Statement</b>	<b>Classified as Hazardous according to HSNO in New Zealand. Not classified as a Dangerous Good according to NZS5433:1999 Transport of Dangerous Goods on Land.</b>
<b>Description and Use</b>	Moisture curing polyurethane adhesive.
<b>Supplier</b>	<b>Bostik New Zealand Limited</b>
<b>Street Address</b>	19 Eastern Hutt Road, Wingate, Lower Hutt, New Zealand
<b>Telephone</b>	++64 4 567 5119
<b>Facsimile</b>	++64 4 567 5412
<b>Website</b>	<a href="http://www.bostik.co.nz">www.bostik.co.nz</a>
<b>Emergency Telephone Number</b>	<b>National Poisons Centre 0800 POISON or 0800 764 766</b>
<b>Emergency Response</b>	In New Zealand <b>0800 CHEMCALL or 0800 243 622</b> In Australia <b>1800 033 111</b> Globally <b>++64 3 353 0199</b>
<b>Date SDS first prepared</b>	3 April 2012

**2 HAZARDS IDENTIFICATION****HSNO Classifications**

- 6.1B Acute toxicity – Toxic if swallowed.
- 6.3A Causes skin irritation
- 6.4A Causes severe eye irritation
- 6.5A May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.
- 6.5B May cause allergic skin reaction
- 6.7B Suspected of causing cancer
- 6.9A Causes damage to organs through prolonged or repeated exposure (via inhalation).
- 9.3A Very ecotoxic to terrestrial vertebrate.

**Note: Hazardous component is consumed as product cures. Cured material is low hazard.**

**3 COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS	Proportion
4,4' –methylene diphenyl diisocyanate (MDI)	101-68-8	Medium
Non-hazardous materials	-	To 100%

High = >60%    Medium = 10% - 60%    Low = 1% - 10%    Very Low = < 1%

**4 FIRST AID MEASURES**

If poisoning occurs, contact the National Poison Centre (New Zealand 0800 POISON or 0800 764 766).

**First Aid****Inhalation**

Some individuals may develop allergic sensitivity to the extremely low vapour concentrations as found in normal use.

If respiratory symptoms develop, treat as for possible acute asthma. Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Heating may generate vapour concentrations sufficient to cause respiratory irritation.

**Skin Contact**

Immediately wash skin with warm soapy water, as cured material may be difficult to remove. Remove contaminated clothing while washing. Do not scrub. If swelling, redness, blistering or irritation occurs, get medical assistance. Wash clothing before re-use.

**Eye Contact**

Immediately hold open and flood with water for at least 15 minutes. Eyelids to be held open. Get medical advice.

**Ingestion**

Immediately call a poison centre or doctor/physician. Do not induce vomiting.

**Advice to Physician**

Treat symptomatically. Effects may be delayed.

**5 FIRE FIGHTING MEASURES**

Clear fire area of all non-emergency personnel.

**Type of Hazard** Combustible material

**HAZCHEM Code** Not applicable

**Fire Hazard Properties** Unknown due to the complex nature of this material. Fumes from complete or incomplete combustion of this material may include carbon dioxide, carbon monoxide, water vapour, oxides of nitrogen, isocyanates, hydrogen cyanide or a wide variety of innocuous or toxic fumes. Dense smoke is produced when product burns.

**Extinguishing Media** Foam, dry chemical, carbon dioxide, water spray only.

**Unsuitable Extinguishing Media** Do not use a water jet.

**Precautions for Firefighters** Wear full protective equipment, including self contained breathing apparatus.

**Additional Advice** Keep adjacent containers cool by spraying with water. Product reacts with water to evolve carbon dioxide. Do not tightly seal containers of damp material.

**6 ACCIDENTAL RELEASE MEASURES**

**Small Spills** Avoid accidents and clean up immediately. Wear protective equipment to prevent skin and eye contamination. Scrape and wipe up with absorbent (rag or paper towels). Do not seal containers of waste until product has been allowed to cure overnight.

**Large Spills** Slippery when spilt. Avoid accidents and clean up immediately. Wear protective equipment to prevent skin and eye contamination. In poorly ventilated areas wear appropriate respirator. Do not allow to enter drains and waterways. Scrape up or use absorbent (rags, soil, sand, or other inert material). Collect in properly labelled containers or drums for disposal or recycling. Do not seal containers of waste until product has been allowed to cure. Dampness will accelerate curing reaction but beware of heat generation and foaming during cure. See Disposal section of this SDS for further details.

**7 HANDLING AND STORAGE**

**Handling** Avoid contact with material. Use only in well ventilated areas. Wear the appropriate personal protection equipment as specified in this SDS to prevent eye and skin contact. Wash thoroughly after handling.

**Storage** Store in a cool dry place and out of direct sunlight. Store only in the original container. Keep container tightly closed when not in use to prolong shelf life. Store away from any incompatible materials as defined in Section 10 of this SDS. Do not store product if contaminated with water, as curing reaction may cause pressure build-up in sealed containers.

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

No value assigned for this specific material by the Department of Labour New Zealand. Exposure limits for specific hazardous components are as follows:

**Workplace Exposure Guidelines**

Substance		WES-TWA	WES-STEL
Isocyanates, all (as -NCO)	Note: Sen	0.02 mg/m <sup>3</sup>	0.07 mg/m <sup>3</sup>

Sen: Isocyanate containing materials are sensitizers. The substance can cause a specific immune response in some people. Sensitisation (Allergy) may develop over time due to occupational exposure to isocyanates. Sensitised persons may react to minute levels of the specific substance and be unable to tolerate any further exposure. Good industrial hygiene is important to reduce the risk of sensitisation, and persons with a history of asthma or skin sensitivity should be especially careful.

**Engineering Controls** Use in a well ventilated area only. Ventilation system should be designed to move the air away from the source of the vapour and the people working in the area. Local exhaust ventilation may be necessary for some operations, especially if heating of the material.

**Personal Protection Equipment** Avoid skin contact, particularly repeated and prolonged skin contact. Wear impervious gloves. Avoid eye contact. Wear safety glasses. Wear overalls or similar protective clothing, and enclosed footwear. Wash hands after use and before eating, drinking, or smoking. Change contaminated clothing. Wear organic vapour respirator if working in a poorly ventilated area. Selection of the correct cartridge is essential.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Cream coloured viscous liquid.
<b>Odour</b>	Low
<b>Flash Point °C</b>	Not applicable
<b>Boiling Point °C</b>	Not available
<b>Lower &amp; Upper Flammability Limits %</b>	Not applicable
<b>Auto-ignition Temperature °C</b>	Not available
<b>Specific Gravity</b>	1.05
<b>Solubility in Water</b>	Low – partly reacts with water with evolution of CO <sub>2</sub>

**10 STABILITY AND REACTIVITY**

<b>Stability of Substance</b>	This material is stable when stored and used as directed.
<b>Conditions to Avoid</b>	Elevated temperatures. Avoid moisture, as material slowly reacts with water releasing carbon dioxide.
<b>Incompatible Materials</b>	Water, alcohols, amines, acids and bases, oxidising agents.
<b>Hazardous Decomposition Products</b>	Thermal decomposition is highly dependant on conditions. Some isocyanate release is likely. A complex mixture of airborne solids, liquids and gases, including hydrogen cyanide, carbon monoxide, carbon dioxide, isocyanates and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.
<b>Hazardous Reactions</b>	Will react exothermically with water and all organic compounds containing active hydrogen atoms.

**11 TOXICOLOGICAL INFORMATION**

Information given in this Safety Data Sheet is based on the data on the components and the toxicology of similar products.

No adverse health effects are expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:



## SAFETY DATA SHEET

<b>Acute Oral Toxicity</b>	No LD50 data available. Swallowing can result in nausea and vomiting and irritation of the gastrointestinal tract.
<b>Acute Dermal Toxicity</b>	Contact may result in irritation.
<b>Acute Inhalation Toxicity</b>	Material is irritating to mucous membranes and respiratory tract. May cause headaches, dizziness or nausea. If material is mishandled by heating or aerosol generation, the vapours or mist may cause serious harm to respiratory tract.
<b>Skin Irritation</b>	Contact with skin may result in irritation. A skin sensitiser. Repeated or prolonged skin contact may result in allergic contact dermatitis.
<b>Eye Irritation</b>	Likely to cause eye irritation.
<b>Sensitisation (Respiratory &amp; Contact)</b>	Practise good industrial hygiene to minimise personal exposure, as sensitisation to this product may develop over time. May cause allergic or asthmatic symptoms or breathing difficulties if the vapours or mists are inhaled. May cause allergic skin reaction.
<b>Carcinogenicity</b>	Data not available. Not expected to be carcinogenic when used as intended.
<b>Reproductive / Developmental Toxicity</b>	Data not available. As a routine precaution, pregnant women should not routinely use this product.
<b>Mutagenicity</b>	Not expected to be mutagenic when used as intended.
<b>Target Organ Systemic</b>	Unlikely to cause damage to organs when used as directed.

## 12 ECOLOGICAL INFORMATION

<b>Acute Toxicity Aquatic</b>	No data available. Avoid contaminating waterways.
<b>Soil</b>	Product will cure within hours and is then unlikely to be ecotoxic in the soil environment.
<b>Terrestrial Vertebrate</b>	MDI is toxic to vertebrates. No data available for this product.
<b>Terrestrial Invertebrate</b>	No data available.
<b>Persistence &amp; degradability</b>	In the terrestrial environment, the hazardous component of this material reacts with trace water to form insoluble solid polyurethanes. Expected to slowly biodegrade.
<b>Bioaccumulation</b>	No data available.
<b>Mobility</b>	No data available.

**13 DISPOSAL CONSIDERATIONS**

<b>Substance Disposal</b>	Do not dispose of down drains or into local waterways. Small quantities may be disposed of by exposing to air, or mixing in a material that will contain trace moisture such as earth or sawdust. Place in a safe place and allow to cure, then dispose to landfill. Beware of possible heat and foam generation during cure. Otherwise dispose of substance to a hazardous or special waste collection point or through a licensed contractor. Disposal by incineration is hazardous and must be done by an approved agent.
<b>Container Disposal</b>	Leave open in a safe place to cure any residues, then dispose to landfill.
<b>Local Legislation</b>	Disposal should be in accordance with Hazardous Substances (Disposal) Regulations 2001, and with any other applicable regional and national laws and regulations.

**14 TRANSPORT INFORMATION****Land Transport (NZS 5433:1999 Transport of Dangerous Goods on Land)**

Not classified as Dangerous Goods by the criteria of NZS 5433:1999 Transport of Dangerous Goods on Land for transport by road or rail.

**Marine Transport (IMDG)**

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**Air Transport (IATA)**

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for Transport by air.

**15 REGULATORY INFORMATION**

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

**Environmental Risk Management Authority (ERMA) Group Standard Number:**

Construction Products (Subsidiary Hazard) Group Standard 2006: HSR002544

**Hazardous Substances and New Organisms Act (HSNO) requirements:**

Trigger quantities/ Approved Handler/ Tracking are all not applicable.

**16 OTHER INFORMATION**

**SDS Revisions** Safety Data Sheets are updated at least every 5 years. Obtain the latest version by visiting [www.bostik.co.nz](http://www.bostik.co.nz).

**Reason for Issue** Update ingestion response statement

**SDS Distribution** The information in this document should be made available to all who may handle this product.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use the product in the workplace. Since Bostik New Zealand Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Bostik New Zealand Limited.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is available upon request.

**Key / Legend**

<b>SDS</b>	Safety Data Sheet
<b>HSNO</b>	Hazardous Substances and New Organisms Act 1996
<b>WES-TWA</b>	The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.
<b>WES-STEL</b>	The 15 minute average exposure standard. This applies to any 15 minute period in a working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to WES-TWA; both the short-term and time-weighted average exposures apply.

**Disclaimer** This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.