

1. Identification of Substance & Company

Product

Product name	AT-HP
Product code	AT-HP
UN number	NA
Proper Shipping Name	NA
Packaging group	NA
Hazchem code	1T (recommended, no HAZCHEM signage necessary)
Uses	Anchoring Adhesive

Company Details

Company	Simpson Strong-Tie Australia Pty Limited
Address	Unit 1/16 Kenoma Place Arndell Park, NSW 2148 Australia
Telephone	+612 9831 7700
Fax	+612 9831 2726
Website	www.strongtie.com.au

Emergency Telephone Number: 13 11 26

2. Hazard Identification

General Information

The final hardened material is considered non hazardous. The two part of this product have been assessed according to GHS and are classified as follows:

GHS category	Hazard Code	Hazard Phrase
Hardener:		
Organic peroxides, type E	H242	Heating may cause a fire
Skin corrosion/irritation, category 2	H315	Causes skin irritation
Serious eye damage/eye irritation, category 2A	H319	Causes serious eye irritation
Sensitisation, skin, category 1	H317	May cause an allergic skin reaction

SYMBOLS

DANGER



Resin:		
Serious eye damage/eye irritation, category 2A	H319	Causes serious eye irritation

SYMBOLS

WARNING



Other Classifications

The following hazard statements are not required in Australia, but are relevant and may be useful in some jurisdictions:

Resin		
Skin corrosion/irritation, category 3	H316	Causes mild skin irritation
Hazardous to the aquatic environment, chronic toxicity, category 4	H413	May cause long lasting harmful effects to aquatic life

Precautionary Statements

P210	Keep away from ignition source. No smoking.
P220	Keep/Store away from clothing/combustible materials.
P234	Keep only in original container.
P411+P235	Store at temperatures not exceeding 25°C. Keep cool.
P410	Protect from sunlight.
P420	Store away from other materials.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing.
P362	Take off contaminated clothing and wash before re-use.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart.
P337+P313	If eye irritation persists: Get medical advice.
P261	Avoid breathing vapours.
P272	Contaminated work clothing should not be allowed out of the workplace.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container in accordance with national regulations.
P273	Avoid release to the environment.

3. Composition / Information on Ingredients

Hardener Part - Components	CAS/ Identification	Concentration
Limestone	1317-65-3	25-50%
Dibenzoyl peroxide	94-36-0	10-25%
Dicyclohexyl phthalate	84-61-7	10-25%

Resin Part - Components	CAS/ Identification	Concentration
Limestone	1317-65-3	50-100%
p-tert-Butylstyrene	1746-23-2	2.5-10%
Alkoxylated Pentaerythritol Acrylate	NA	2.5-10%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

You should call the Poisons Information Centre if you feel that you may have been harmed, burned or irritated by this product. The number is 13 11 26 (24 hr emergency service).
If medical advice is needed, have this SDS, product container or label at hand. If exposed or concerned: Get medical advice/attention.

Recommended first aid facilities Ready access to running water is recommended. Accessible eyewash is recommended.

Exposure

Swallowed	Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical advice.
Skin contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Inhaled	Generally, inhalation of fumes is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor.

Advice to Doctor

Treat symptomatically

5. Firefighting Measures

Fire and explosion hazards: The Hardener part of this substance is an organic peroxide, which is an oxidiser. Oxidising materials can increase the intensity of fire.

Suitable extinguishing substances: Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam.

Unsuitable extinguishing substances: Do not use water jets.

Products of combustion: Carbon dioxide, and if combustion is incomplete, carbon monoxide, oxides of sulfur and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.

Protective equipment: Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.

Hazchem code: NA

6. Accidental Release Measures

Emergency procedures In the event of spillage alert the fire brigade to location and give brief description of hazard.
Stop the source of the leak, if safe to do so.
Shut off all possible sources of ignition.
Wear protective equipment to prevent skin, eye and respiratory exposure.
Clear area of any unprotected personnel.
Contain using sand, earth or vermiculite. Do not use sawdust.
Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately).

Clean-up method Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
Use detergents to clean up spill site, do not use solvents.

Disposal Not applicable

Precautions Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.

7. Storage & Handling

Storage Avoid storage of harmful substances with food. Keep in original packaging. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Keep in a dry ventilated place. Avoid contact with incompatible substances as listed in Section 10. Store between 5 and 25°C

Handling Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

8. Exposure Controls / Personal Protective Equipment

Exposure Standards

An Exposure Standard (ES) for the mixture has not been established. Below are the exposure standards for the ingredients that are listed in the NOHSC: 1003.

NOHSC (NOHSC:1003)	Ingredient	ES-TWA	ES-STEL
	dibenzoyl peroxide	5mg/m ³	Data unavailable
	dicyclohexyl phthalate	Data unavailable	data unavailable

Engineering Controls

In industrial situations, concentration values below the ES value must be maintained. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe airborne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment

Eyes



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible.

Skin



Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves. Nitrile gloves are recommended. Replace frequently. Gloves should be checked for tears or holes before use. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking. Wash hands after handling.

Respiratory

A respirator when airborne concentrations approach the ES (section 8). Use a respirator with an organic vapour cartridge and a particulate filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

ES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance	Hardener: Viscous liquid, Resin: fluid liquid
Odour	No data
pH	Not applicable
Vapour pressure	No data
Viscosity	No data
Boiling point	No data
Volatile materials	No data
Freezing / melting point	No data
Solubility	Insoluble in water
Specific gravity / density	>1
Flash point	Not flammable
Danger of explosion	Heating may cause explosion (hardener)
Auto-ignition temperature	No data
Upper & lower flammable limits	No data
Corrosiveness	Non corrosive

10. Stability & Reactivity

Stability	These substances will react with each other. Follow recommended handling instructions and storage conditions. This mixture contains ingredients that are not stable in the following conditions: Strong UV radiation, free radical initiators, peroxides, strong alkali metals or reactants.
Conditions to be avoided	Oxidising substance - keep away from sources of ignition and flammable materials (see below). Keep away from water, moisture and humidity.
Incompatible groups	Flammable substances, oxidisers, acids, bases
Substance Specific Incompatibility	none known
Hazardous decomposition products	Oxides of carbon and sulfur
Hazardous reactions	This material can produce exothermic polymerisation reactions.

11. Toxicological Information

Summary

ON SKIN CONTACT: Repeated or prolonged contact with the mixture may cause defatting of the skin resulting in non-allergic contact dermatitis. Absorption through the skin is possible. May cause an allergic reaction by skin contact.

ON EYE CONTACT: may result in transient eye irritation.

Supporting Data

Acute	Oral	Using LD ₅₀ 's for ingredients, the calculated LD ₅₀ (oral, rat) for the both parts of the mixture is >5,000 mg/kg. Data considered includes: dibenzoyl peroxide 1072mg/kg (mouse), 2255mg/kg (rat).
	Dermal	No evidence of dermal toxicity.
	Inhaled	No evidence of inhalation toxicity.
	Eye	The mixture is considered to be an eye irritant. Dibenzoyl peroxide, Dicyclohexyl phthalate, p-tert-Butylstyrene and the acrylate are all considered eye irritants at higher concentrations.
	Skin	The mixture is considered to be a skin irritant. Dibenzoyl peroxide, Dicyclohexyl phthalate, p-tert-Butylstyrene and the acrylate are all considered skin irritants at higher concentrations.
Chronic	Sensitisation	The hardener is considered to be a contact sensitizer. Dibenzoyl peroxide is a known contact sensitizer.
	Mutagenicity	No ingredient present at concentrations > 0.1% is considered a mutagen.
	Carcinogenicity	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	Reproductive / Developmental	No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.
	Systemic	No ingredient present at concentrations > 1% is considered a known target organ toxicant.
	Aggravation of existing conditions	None known.

12. Ecological Data

Summary

The resin part of this mixture may be harmful in the aquatic environment.

Supporting Data

Aquatic	p-tert-Butylstyrene is considered toxic to aquatic life.
Bioaccumulation	No data
Degradability	Not readily degradable.

13. Disposal Considerations

Restrictions	There are no product-specific restrictions. However, state and local disposal regulations may apply. Note that state and local disposal regulations may differ from federal disposal regulations.
Disposal method	Consult Simpson Strong-tie Products for recycling options. Disposal of this product must comply with the requirements of state and local disposal regulations. The substance must be handled as hazardous waste and disposed of in an approved facility.
Contaminated packaging	Dispose of empty containers safely. Do not re-use containers for any other purpose.
Special considerations for landfill and incineration	Not applicable.

14. Transport Information

UN number:	NA	Proper shipping name:	NA
Class(es)	NA	Packing group:	NA
Precautions:	Separate from flammables.	Hazchem code:	NA

15. Regulatory Information

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP)	Schedule 5	
Applicable prohibitions and notifications/licensing requirements	Not applicable	
Agricultural and Veterinary Chemicals Act	Not applicable	
Listing in the Australian Inventory of Chemical Substances (AICS)	Limestone	High Volume Industrial Chemicals List (HVICL)
	Peroxide, dibenzoyl	Hazardous Substance International Programme on Chemical Safety (IPCS) – SIDS
	Dicyclohexyl phthalate	NICNAS PEC candidate chemical
Additional information	Not applicable	

16. Other Information

Abbreviations

AICS	Australian Inventory of Chemical Substances
CAS Number	Unique Chemical Abstracts Service Registry Number
EC₅₀	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
ES	Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed in a work day.
GESTIS	Database on Hazardous substances, Information system on hazardous substances of the German Social Accident Insurance.
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
IARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit
LD₅₀	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
LC₅₀	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
NICNAS	National Industrial Chemicals Notification and Assessment Scheme
NZ EPA CCID	New Zealand Environmental Protection Agency. Chemical Classification Information Database.
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
TWA	Time Weighted Average – generally referred to ES averaged over typical work day (usually 8 hours)
UEL	Upper Explosive Limit
UN Number	United Nations Number

References

Data	Unless otherwise stated comes from IUCLID datasheet for the specific chemical.
NOHSC: 1003	National Occupational Health and Safety Commission 1995, <i>Exposure Standards for Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]</i>
Other References:	Simpson Strong-tie MSDS from UK, ChemIDplus, New Zealand EPA – CCID, GESTIS Substance Database

Review

Date	Reason for review
December 2012	New MSDS

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. **The likely GHS classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological).** Full formulation details were not available. This SDS is prepared in accordance with the Code of Practice for "Preparation of Safety Sheets for hazardous Chemicals" December 2011 in accordance with WHS regulations. This MSDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the MSDS author, email info@datachem.co.nz or phone: +64 9 940 30 80.

