

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 25.07.2016

Revision: 25.07.2016

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: BONDTECH CA560 ADHESIVE

Other Means of Identification: Mixture

Other Name: CA560 Synthetic Grass Adhesive

Recommended Use of the Chemical and Restriction on Use: Synthetic grass adhesive.

Details of Manufacturer or Importer:

Chemical Technology Pty Ltd

80 Lipton Drive

Thomastown VIC 3074

Phone Number: 03 9462 3730

Emergency telephone number: 0431 481 661

2 . HAZARDS IDENTIFICATION

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Signal Word Danger

Hazard Statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

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Precautionary Statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P240	Ground/bond container and receiving equipment.
P242	Use only non-sparking tools.
P273	Avoid release to the environment.
P243	Take precautionary measures against static discharge.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P321	Specific treatment (see on this label).
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use for extinction: CO ₂ , powder or water spray.
P391	Collect spillage.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

64742-49-0	Naphtha (petroleum), hydrotreated light ⚠ Asp. Tox. 1, H304	0 - <50%
142-82-5	Heptane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	0 - <50%
64742-48-9	Naphtha (petroleum), hydrotreated heavy ⚠ Asp. Tox. 1, H304; Flam. Liq. 4, H227	40%
110-54-3	Hexane ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	<5%

Additional information:

Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0.1% w/w benzene (EINECS no. 200-753-7) (CAS No. 64742-49-0, 64742-48-9).

4 . FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

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Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms persist.

Ingestion:

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation. Vapours may cause drowsiness or dizziness, headache, nausea, shortness of breath and fatigue. Higher concentrations may cause central nervous system (CNS) depression, incoordination and impaired judgement.

Skin Contact: Causes skin irritation, redness or rash.

Eye Contact: May cause eye irritation, stinging, tearing, redness and swelling.

Ingestion: May cause gastrointestinal irritation, abdominal pain, nausea, vomiting and diarrhoea. May cause CNS depression, dizziness, drowsiness, headache, confusion, muscular weakness and unconsciousness. May be fatal if swallowed and enters airways.

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Foam, dry chemical or carbon dioxide. Do not use water jet.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and organic compounds.

Product is highly flammable. Vapours may travel considerable distances to a source of ignition where they can ignite, flashback, or explode.

Closed containers may explode when exposed to extreme heat. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, safety glasses, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Do not use combustible materials such as sawdust. Collect the spilled material and place into a suitable container for disposal. Use only non-sparking tools.

7 . HANDLING AND STORAGE

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharge. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide

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eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Do not use or store in confined spaces. Keep in original container tightly closed when not in use. Protect from heat, sparks, open flames, hot surfaces and direct sunlight. Protect containers from physical damage. Keep away from strong oxidising agents. Do not pressurise, heat, weld, cut or drill on full or empty containers. Handling equipment must be grounded to prevent sparking.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:**142-82-5 Heptane**

NES	STEL: 2050 mg/m ³ , 500 ppm TWA: 1640 mg/m ³ , 400 ppm
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110-54-3 Hexane

NES	TWA: 72 mg/m ³ , 20 ppm
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Engineering Controls:

Maintain air concentration below occupational exposure standards, providing adequate ventilation. Use explosion-proof ventilating equipment.

Respiratory Protection:

Use an approved organic vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Impervious gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered. Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form:	Paste
Colour:	Opaque brown
Odour:	Typical hydrocarbon odour
Odour Threshold:	No information available
pH-Value:	Not applicable
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	> 40 °C
Flash Point:	< -20 °C (Closed Cup)
Flammability:	Highly flammable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available

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Upper:	No information available
Vapour Pressure:	No information available
Relative Density:	~1
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Insoluble

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur. Possible hazardous reaction with strong oxidising agents.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:** Heat, sparks, open flames, hot surfaces and direct sunlight.**Incompatible Materials:** Strong oxidising agents.**Hazardous Decomposition Products:** Oxides of carbon and organic compounds.

11 . TOXICOLOGICAL INFORMATION

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****64742-48-9 Naphtha (petroleum), hydrotreated heavy**

Oral	LD ₅₀	>5000 mg/kg (rat)
Dermal	LD ₅₀	>3000 mg/kg (rab)

Acute Health Effects**Inhalation:**

May cause respiratory irritation. Vapours may cause drowsiness or dizziness, headache, nausea, shortness of breath and fatigue. Higher concentrations may cause central nervous system (CNS) depression, incoordination and impaired judgement.

Skin: Causes skin irritation, redness or rash.**Eye:** May cause eye irritation, stinging, tearing, redness and swelling.**Ingestion:**

May cause gastrointestinal irritation, abdominal pain, nausea, vomiting and diarrhoea. May cause CNS depression, dizziness, drowsiness, headache, confusion, muscular weakness and unconsciousness. May be fatal if swallowed and enters airways.

Skin Corrosion / Irritation: Causes skin irritation.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:**

n-Hexane is classified by Safe Work Australia as Toxic to Reproduction Category 3. Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure: May cause drowsiness and dizziness.**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: May be fatal if swallowed and enters airways.

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Chronic Health Effects:

Repeated and prolonged occupational overexposure may cause CNS depression leading to unconsciousness and death. Prolonged skin contact may cause skin dryness, cracking and dermatitis. May cause damage to liver and kidneys.

Existing Conditions Aggravated by Exposure:

Exposure may aggravate existing dermatitis and skin sensitivity.

Additional toxicological information:

Repeated inhalation of n-hexane may have effects on the central nervous system and especially the peripheral nervous system, resulting in polyneuropathy. Cessation of exposure is not immediately followed by improvement and symptoms may progress. Final recovery will depend on the severity of the intoxication and may not necessarily be complete. Animal tests have also shown that this substance possibly causes toxic effects upon human reproduction.

The n-hexane contained in this product is below health hazard concentration cut-offs; however exposure should be reduced to the least possible levels.

12 . ECOLOGICAL INFORMATION

Ecotoxicity: No information available

Aquatic toxicity: Very toxic to aquatic life with long lasting effects.

Persistence and Degradability: No information available

Bioaccumulative Potential: No information available

Mobility in Soil: No information available

Other adverse effects: No information available

13 . DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 . TRANSPORT INFORMATION

UN Number ADG, IMDG, IATA	UN1133
Proper Shipping Name ADG, IMDG, IATA	ADHESIVES containing flammable liquid
Dangerous Goods Class ADG Class:	3 Flammable liquids.
Packing Group: ADG, IMDG, IATA	II
Marine pollutant:	Yes Symbol (fish and tree)
EMS Number:	F-E,S-D
Hazchem Code:	.3YE
Limited Quantities:	5L
Packagings & IBCs - Packing Instruction:	P001, IBC02

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Packagings & IBCs - Special Packing Provisions: PP1**Portable Tanks & Bulk Containers - Instructions: T4****Portable Tanks & Bulk Containers - Special Provisions: TP1, TP8**

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:

64742-49-0	Naphtha (petroleum), hydrotreated light
142-82-5	Heptane
64742-48-9	Naphtha (petroleum), hydrotreated heavy
110-54-3	Hexane

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
Poisons Schedule: 5

16 . OTHER INFORMATION

Date of Preparation or Last Revision: 25.07.2016**Prepared by: MSDS.COM.AU Pty Ltd**www.msds.com.au**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC₅₀: Lethal concentration, 50 percent
 LD₅₀: Lethal dose, 50 percent
 IARC: International Agency for Research on Cancer
 STEL: Short Term Exposure Limit
 TWA: Time Weighted Average
 NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)
 Flam. Liq. 2: Flammable liquids, Hazard Category 2
 Flam. Liq. 4: Flammable liquids, Hazard Category 4
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 Repr. 2: Reproductive toxicity, Hazard Category 2
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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