

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

<b>Product Name</b>	<b>TUF AS NAILS ORIGINAL</b>
<b>Hazard Statement</b>	<b>Classified as Hazardous according to HSNO in New Zealand. Classified as a Dangerous Good according to NZS5433:1999 Transport of Dangerous Goods on Land.</b>
<b>Recommended Use</b>	Solvent based construction adhesive for bonding all building materials.
<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>	www.bostik.co.nz
<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>

**2 HAZARDS IDENTIFICATION**

Note: This product contains both volatile (solvents) and non-volatile components. During the normal use of this product, the hazardous volatile components evaporate and dissipate. The remaining non-volatile component is not hazardous.

<b>Hazard Statement</b>	<b>DANGER</b>	Highly flammable liquid and vapour.
<b>Precautions</b>	Keep away from ignition sources such as heat, sparks and open flames. Do not handle until safety precautions have been read and understood.	

**HSNO Classifications**

3.1B	Highly flammable liquid and vapour
6.1E	Acute toxicity – Harmful if swallowed
6.3B	Causes mild skin irritation
6.4A	Causes severe eye irritation
6.9B	May cause damage to organs through prolonged or repeated exposure
9.1B	Toxic to aquatic life

**3 COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS	Proportion
De-aromatised aliphatic hydrocarbon solvent	various	Medium
n-Hexane	110-54-3	Low
Non-hazardous materials	-	To 100%

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

**4 FIRST AID MEASURES**

If consumed, contact the National Poison Centre, New Zealand 0800 POISON or 0800 764 766.

**First Aid****Inhalation**

Provide improved ventilation or remove person to fresh air if symptoms such as light headedness can be felt. If inhaled to excess causing solvent intoxication, remove person from contaminated area, and get medical advice if seriously affected. Keep at rest until fully recovered. Intentional inhalation abuse of any solvent based product is extremely dangerous. Apply artificial respiration if not breathing.

**Skin Contact**

Remove contaminated clothing. Rub off with vegetable oil if available, and wash skin with warm soapy water. Do not scrub. If swelling, redness, blistering or irritation occurs, get medical assistance.

**Eye Contact**

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

**Ingestion**

Rinse mouth with water. Get medical advice immediately. Do NOT give anything to drink. Do NOT induce vomiting because of risk of aspiration. Never give anything by the mouth to an unconscious patient. Watch for toxic effects.

**Advice to Physician**

Treat symptomatically. Effects may be delayed.

**5 FIRE FIGHTING MEASURES**

Clear fire area of all non-emergency personnel.

**Type of Hazard** Flammable Liquid

**HAZCHEM Code** 3[Y]E

**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 or a wide variety of innocuous or toxic fumes. Solvent vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along ground to sources of ignition.

**Extinguishing Media** Water fog, foam, dry chemical, carbon dioxide

<b>Unsuitable Extinguishing Media</b>	Do not use a water jet.
<b>Precautions for Firefighters</b>	Wear full protective equipment, including self contained breathing apparatus.
<b>Additional Advice</b>	Keep adjacent containers cool by spraying with water.

## 6 ACCIDENTAL RELEASE MEASURES

<b>Small Spills</b>	Extinguish all ignition sources. Avoid sparks, flames and heat. Avoid accidents and clean up immediately. Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (rag or paper towels). Collect and seal in properly labelled containers or drums for disposal or recycling.
<b>Large Spills</b>	Extinguish all ignition sources. Avoid sparks, flames, heat and the build up of static electricity. Consider evacuation of area and/or site. Alert emergency services if required. Slippery when spilt. Avoid accidents and clean up immediately. Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours by wearing appropriate respirator. Contain spill to prevent run off into drains and waterways. Use absorbent (rags, soil, sand, or other inert material). Collect using spark-free shovels (ie. plastic) and seal in properly labelled containers or drums for disposal or recycling. See Disposal section of this SDS for further details.

## 7 HANDLING AND STORAGE

<b>Handling</b>	Avoid breathing vapours or contact with material. Flammable vapours released during adhesive application may form explosive mixtures with air. Use only in well ventilated areas. Keep away from heat, sparks, open flames and any other sources of ignition. Static electricity must be avoided. Wear the appropriate personal protection equipment as specified in this SDS to prevent eye and skin contact. Wash thoroughly after handling.
<b>Storage</b>	Store in a cool, dry, well ventilated place and out of direct sunlight. Keep away from heat, sparks, open flames and any other sources of ignition. Store away from any incompatible materials as defined in Section 10 of this SDS. Keep containers closed when not in use. Check regularly for leaks. For unit sizes of 20 litres or more, store according to HSNO regulations.

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Workplace Exposure Guidelines**

<b>Substance</b>	<b>WES-TWA</b>	<b>WES-STEL</b>
Heptane	400 ppm	500 ppm-
n-Hexane	20 ppm	-

**Engineering Controls** Use in a well ventilated area only. Vapour is heavier than air. Prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected. Keep containers in a well ventilated area. Explosion proof general and local exhaust ventilation system is required for factory use.

**Personal Protection Equipment** Avoid vapour inhalation. Wear organic vapour respirator if working in a poorly ventilated area. Selection of the correct cartridge is essential. Avoid skin contact. Wear solvent resistant gloves to avoid repeated and prolonged skin contact. Avoid eye contact. Wear safety glasses if using near or above head height. Wear overalls or similar clothing and enclosed footwear.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Off white thick paste
<b>Odour</b>	Solvent
<b>Flash Point °C</b>	-15
<b>Boiling Point °C</b>	70 – 115
<b>Lower &amp; Upper Flammability Limits %</b>	1.1 – 7.5
<b>Auto-ignition Temperature °C</b>	Not determined
<b>Percent Volatile by weight</b>	Approximately 30%
<b>Specific Gravity</b>	1.15 kg/L
<b>Solubility in Water</b>	Very low

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

**10 STABILITY AND REACTIVITY**

<b>Stability of Substance</b>	This material is stable when stored and used as directed.
<b>Conditions to Avoid</b>	Avoid heat, sparks, flames and any other sources of ignition.
<b>Incompatible Materials</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products</b>	Thermal decomposition is highly dependant on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

**Hazardous Reactions** Will react with strong oxidising agents.

## 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:

<b>Acute Oral Toxicity</b>	Harmful if swallowed. LD <sub>50</sub> >5000 mg/kg.
<b>Acute Dermal Toxicity</b>	Not toxic.
<b>Acute Inhalation Toxicity</b>	Not toxic unless intentionally abused. May be an irritant to mucous membranes and respiratory tract.
<b>Skin Irritation</b>	Causes mild skin irritation.
<b>Eye Irritation</b>	Causes eye irritation.
<b>Sensitisation</b>	Not expected to be a sensitiser.
<b>Carcinogenicity/Mutagenicity</b>	Not expected to be carcinogenic or mutagenic.
<b>Reproductive / Developmental Toxicity</b>	Not expected to cause damage to fertility or the unborn child.
<b>Target Organ Systemic</b>	May cause damage to organs through prolonged or repeated exposure.

## 12 ECOLOGICAL INFORMATION

<b>Acute Toxicity</b>	
<b>Aquatic</b>	Toxic to aquatic life. However the high rate of solvent evaporation makes this product is unlikely to pose a hazard to aquatic life.
<b>Soil</b>	Not ecotoxic in the soil environment.
<b>Terrestrial Vertebrate</b>	Not ecotoxic to terrestrial vertebrates.
<b>Terrestrial Invertebrate</b>	Not ecotoxic to terrestrial invertebrates.
<b>Persistence &amp; degradability</b>	The solvent in this product is readily biodegradable. The remainder of the product is expected to biodegrade slowly.
<b>Bioaccumulation</b>	No data available. The potential to bioaccumulate is expected to be low.
<b>Mobility</b>	Not miscible with water. Heavier than water.

**14 DISPOSAL CONSIDERATIONS**

<b>Substance Disposal</b>	Do not dispose of down drains or into local waterways. Dispose of substance to a hazardous or special waste collection point or through a licensed contractor. Not suitable for incineration unless by an approved agent. Dried product is not hazardous and may be disposed of with general waste.
<b>Container Disposal</b>	Empty containers of dried waste are not hazardous. Consider the possible fire hazard from un-dried residues. Dispose of bulk waste to a hazardous or special waste collection point. Beware: Empty flammable liquid drums present an explosion hazard if cut by flame or welding torch. Ensure drums are thoroughly cleaned and ventilated.
<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)**

<b>UN Number</b>	1133
<b>Proper Shipping Name</b>	ADHESIVES containing flammable liquid
<b>DG Class</b>	3
<b>Subsidiary Risk</b>	Not applicable
<b>Packing Group</b>	II
<b>HAZCHEM Code</b>	3[Y]E

**Marine Transport (IMDG)**

<b>Identification Number</b>	1133
<b>Proper Shipping Name</b>	ADHESIVES containing flammable liquid
<b>Class / Division</b>	3
<b>Packing Group</b>	II
<b>Marine Pollutant</b>	Yes

**Air Transport (IATA)**

<b>UN Number</b>	1133
<b>Proper Shipping Name</b>	ADHESIVES containing flammable liquid
<b>Class / Division</b>	3
<b>Packing Group</b>	II

**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:**  
Surface Coatings and Colourants (Flammable) Group Standard 2006  
HSR002662

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

The following are trigger quantities for this substance by itself in a place.

<b>Approved Handler Test Certificate</b>	250 litres, when in containers > 5 litres 500 litres, when in containers ≤ 5 litres
<b>Tracking</b>	Not applicable

**16 OTHER INFORMATION**

<b>SDS Revisions</b>	Safety Data Sheets are updated at least every 5 years. Obtain the latest version by visiting <a href="http://www.bostik.co.nz">www.bostik.co.nz</a> .
<b>Reason for Issue</b>	SDS review.
<b>SDS Distribution</b>	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 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.

<b>Disclaimer</b>	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.
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