

# MATERIAL SAFETY DATA SHEET

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This product is classified as **HAZARDOUS** according to the criteria of **NOHSC** and a **Dangerous Good** by the criteria of the **ADG CODE**.

## IDENTIFICATION SECTION:

**Product Name:** **SUPRASEC 7113**  
(Summer Grade Laminating Adhesive)  
**Other Names:** **Daltobond CLS Cat Z**

UN Number: UN 2810  
Dangerous Goods Class and Subsidiary Risk: 6.1 Toxic  
Hazchem Code: 2 X  
Poisons Schedule: S5  
Packaging: 111  
Proper Shipping Name: Toxic Liquid, Organic, N.O.S. (Contains: DICHLOROMETHANE)

## PHYSICAL PROPERTIES:

**Appearance:** Clear Red Liquid with penetrating ether-like odour.  
**Boiling Point 760 mm Hg:** 40 °C  
**Vapour Pressure @ 760 mm Hg @ 25 deg C :-** 46.5 kPa\*  
**Specific Gravity:** Approx 1.2 at 20°C  
**Flashpoint:** Not applicable  
**Flammability Limits:** Upper UEL: 22%  
Lower LEL: 14%  
**Solubility in Water:** Insoluble in water. Soluble in most organic compounds.  
**Evaporation rate (Butyl Acetate = 1):** Not determined  
**Other data:** Reactive with water  
**Major recommended usage:** Adhesive catalyst  
**Method of application:** Mechanical methods or hand tools

## INGREDIENTS:

<b>Chemical Entity:</b>	<b>CAS NO</b>	<b>PROPORTION</b>	<b>R phrase</b>
Dichloromethane	75-09-2	30-60%	R40(3)
Urethane prepolymer		30-60%	
Diphenylmethane diisocyanate (MDI)	101-68-8	1-9%	R20,R36 R37,R38 R42
Additives including red dye		1-9%	

No other hazardous materials are present in this product at concentrations above the cut off levels as noted in the list of designated hazardous substances, NOHSC:10005 (1999), or as defined in the approved criteria for Classifying Hazardous Substances, (NOHSC:1008 (1999). A.I.C.S. STATUS: All components of this finished product are listed on the A.I.C.S.

## **HEALTH HAZARD INFORMATION:**

This material is hazardous according to health criteria of NOHSC Australia.

***Emergency Overview:*** Harmful by inhalation, ingestion and by skin and eye contact

### **HEALTH EFFECTS:**

#### ***Acute:***

##### **Swallowed:**

Large amounts may produce nausea, vomiting, diarrhoea and can lead to drowsiness and unconsciousness. Scheduled Poison S5.

##### **Eye:**

Irritant.

##### **Skin:**

Irritating to the skin. Frequent or prolonged contact can cause skin complaints such as dermatitis and possible skin sensitisation. Studies have shown that respiratory sensitization can be induced by skin contact.

##### **Inhaled:**

Inhalation of mists, aerosols or vapours are expected to be irritating to the respiratory system. May cause respiratory sensitisation. A vapour hazard can arise if heated above 40 deg C.

##### ***Chronic:***

Possible skin and respiratory sensitization on repeated or prolonged contact. Isocyanates, all, (as -NCO) Sensitiser notice: Some substances are called sensitisers and the development of a specific immune response is termed sensitisation. Exposure to a sensitiser, once sensitisation has occurred, may manifest itself as a skin rash or inflammation or as an asthmatic condition, and in some individuals this reaction can be extremely severe.

Repeated exposure to high levels may produce liver and kidney damage. Available evidence indicates that the product is an animal carcinogen. This data is not considered relevant to normal industrial use, but emphasises the need for care in handling.

## **FIRST AID:**

### **SWALLOWED:**

If poisoning occurs contact a doctor or poisons information centre.

DO NOT induce vomiting. Rinse mouth. Give 1-2 glasses of water and obtain medical assistance. Should the patient vomit, maintain a clear airway until medical assistance is obtained.

**EYES:**

Immediately irrigate with copious quantities of water for fifteen minutes. Eyelids to be held open. Remove clothing if contaminated and wash contaminated skin. Obtain medical help immediately.

**SKIN:**

Immediately wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. If swelling, redness, blistering or irritation occurs seek medical advice.

**INHALED:**

Carefully remove persons to fresh air, avoid becoming affected yourself. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a mask. If the person stops breathing apply artificial respiration and other first aid techniques as required until medical assistance is obtained.

**FIRST AID FACILITIES:****ADVICE TO DOCTOR:**

Treat symptomatically. Effects may be delayed. Following severe exposure the patient should be kept under medical supervision for at least 48 hours.

Adrenaline and similar sympathomimetic should be avoided after exposure to methylene chloride.

Complications may include cardiac arrhythmia and cardiac arrest.

**EXPOSURE CONTROLS AND PERSONAL PROTECTION:**

This material contains the following materials for which exposure limits have been set NOHSC AUSTRALIA, as listed in the "Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003 (1995) (and updates to 1998):-

Dichloromethane	TWA 174 mg/m <sup>3</sup> STEL none noted	"Sk" carcinogen category (3)
Isocyanates, ALL	TWA 0.02 mg/m <sup>3</sup> STEL 0.07 mg/m <sup>3</sup>	"Sen"
Tin (organic compounds) As Sn	TWA 0.1 mg/m <sup>3</sup> STEL 0.2 mg/m <sup>3</sup>	"Sk"

"Sk" notice: absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

“Sen” notice: sensitiser - The substance can cause a specific immune response in some people. An affected individual may subsequently react to exposure to minute levels of that substance.

**Ventilation:** Provide ventilation sufficient to maintain exposure levels below the listed Exposure limits.

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## **PRECAUTIONS FOR USE:**

### **PERSONAL PROTECTION:**

**RESPIRATORY TYPE (AS1716):** Organic vapour mask. Suitable respiratory equipment with positive air supply should be used in cases of insufficient ventilation or where operational procedures demand it.

**GLOVE TYPE:** Impervious gloves should be worn to prevent skin contact.

**EYE PROTECTION:** Goggles or Face shield to avoid splashes.

**CLOTHING:** Sufficient to avoid skin contact.

## **SAFE HANDLING INFORMATION:**

### **Storage and Handling:**

**HANDLING:** Avoid skin and eye contact and inhalation of vapour.

**STORAGE & TRANSPORT:** Store indoors in a dry well ventilated area. Store away from water, alcohols, amines, acids, and alkalis, reactive organic compounds, sources of heat, ignition and foodstuffs.

**Keep dry**, reacts with water, may lead to drum rupture. Store between 15° to 35° C. Keep containers closed at all times - check regularly for leaks.

DO NOT USE near heated surfaces or flames as toxic decomposition products may be produced. DO NOT store in contact with aluminium or galvanised steel.

Unsuitable containers: aluminium, copper, copper alloy and galvanised surfaces.  
Suitable containers: stainless steel or mild steel.

The material is Scheduled Poison S5 and must be stored in accordance with the relevant regulations.

This material is classified as a Dangerous Good Class 6.1 Toxic Substance as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

### **SPILLS AND DISPOSAL:**

Wear rubber gloves and goggles in addition to respiratory protection for protection from splashes and vapours. Extinguish all ignition sources. Dam and recover. Prevent entry into drainage systems, rivers and waterways etc. Collect with absorbent material such as sand, earth or appropriate commercial absorbent. Shovel up with non-sparking tools then place into suitable containers for disposal as per local, state/federal regulations. Empty containers may contain product residue. Follow safety procedures until container has been cleaned. Isolate leaking containers and stop leak if safe to do so. Clean up immediately using an inert absorbent. Sweep up. Collect and seal in properly labelled drums for disposal. Wash away residues with water.

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### **FIRE FIGHTING MEASURES:**

**DANGEROUS DECOMPOSITION:** Will burn only under extreme conditions. Decomposes on heating or in contact with hot surfaces or flames, emitting toxic vapour/fumes. Methylene Chloride mixtures in the air can be ignited with high intensity sources of heat.

**FIRE FIGHTING RECOMMENDATIONS:** Not classified as flammable although it will burn and can be ignited with high intensity sources of heat. Contact with flames or hot surfaces will produce toxic decomposition products including oxides of carbon, nitrogen oxides, isocyanate vapours, hydrogen cyanide, hydrogen chloride and phosgene. Keep containers cool with water spray to prevent expansion and possible rupture of containers. If safe to do so, remove containers from path of fire.

Due to reaction with water producing CO<sub>2</sub>-gas, a hazardous build up of pressure could result if contaminated containers are re-sealed.

**HAZCHEM CODE:** 2 X

**SUITABLE EXTINGUISHING MEDIA:** Foam, dry agent (carbon dioxide, dry chemical powder). Water fog (or if unavailable fine water spray) may be used if no other extinguishing medium is available, and then in copious quantities. Reaction between water and hot isocyanate may be vigorous.

### **ACCIDENTAL RELEASE MEASURE:**

Wear rubber gloves and goggles in addition to respiratory protection for protection from splashes and vapours. Extinguish all ignition sources. Dam and recover. Prevent entry into drainage systems, rivers and waterways etc. Collect with absorbent material such as sand, earth or appropriate commercial absorbent. Shovel up with non-sparking tools then place into suitable containers for disposal as per local, state/federal regulations. Empty containers may contain product residue. Follow safety procedures until container has been cleaned. Uncured material exposed to water or other source of moisture will evolve carbon dioxide gas.

### **STABILITY AND REACTIVITY:**

Reactivity: Water reactive. Contact with red hot surfaces, sparks or naked flames may generate toxic fumes of phosgene and hydrogen chloride. Forms a denotable mixture with nitric acid. May react with certain amines ie. Polyurethane catalysts. Prolonged contact with aluminium or light alloys may cause a reaction with generation of gas and pressure build up.

### **TOXICOLOGICAL INFORMATION:**

No adverse health effects expected if the product is handled in accordance with the Safety Data Sheet and the product label.

Long Term Effects: Repeated exposure to high levels may produce liver and kidney damage. Available evidence indicates that the product is an animal carcinogen. These particular data sets are not considered relevant to normal industrial use but do emphasise the need for care in handling.

No LD50 data available for the product, but for Dichloromethane constituent.

Oral Rat LD50 > 2100 mg/kg

Inhalation Rat LC50 > 53 mg/L/7hrs

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#### ECOLOGICAL INFORMATION:

**Environmental Information:** Low toxicity to aquatic organisms. Do not allow to enter the environment. Waste material should be collected and disposed of according to the relevant local/state or federal regulations.

#### DISPOSAL:

Refer to Land Waste Management Authority.

#### TRANSPORT INFORMATION:

##### ROAD AND RAIL:

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road and rail.

UN NO: 2810  
CLASS: 6.1 TOXIC  
PACKAGING GROUP: 111

##### PROPER SHIPPING

NAME: TOXIC LIQUID, ORGANIC, N.O.S. (contains DICHLOROMETHANE)

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), nitromethane, food and food packaging in any quantity, however exemptions may apply.

#### Disclaimer:

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Nightingale Supply. The data on this sheet is related only to the specific material designated herein. Nightingale Supply assumes no legal responsibility for use or reliance upon these data.

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