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IDENTIFICATION of the SUBSTANCE(S) and COMPOSITION

Product Name	POLYCARBONATE THINNER 277	***Code***	SP277
Product Use	Industrial Thinner		
Ingredients	***Name***	***CAS Number***	***Proportion w/w***
	Acetone	67 – 64 – 1	30-60 %
	n-Butanol	71-36-3	10-30 %
	Diacetone Alcohol	123-42-2	10-30 %

HAZARD IDENTIFICATION

The product is classified both as Hazardous Substance and Dangerous Goods according to ASCC

Risk Phrases R	66,67	Repeated exposure may cause skin dryness and cracking. Vapours may cause headaches, drowsiness and dizziness
	22	Harmful if swallowed.
	65	May cause lung damage if swallowed.
	36/3738	Irritating to eyes, respiratory system and skin.
	41	Risk of serious damage to eyes.
	11	Highly Flammable
Safety Phrases S	7/9	Keep container tightly closed and in a well ventilated area
	16	Keep away from sources of ignition
	23.2	Avoid breathing vapours.
	24/25	Avoid contact with skin and eyes.
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	28	After contact with skin, wash immediately with plenty of soap suds.
	36/37/38/39	Wear recommended Personal Protective Equipment – protective clothing, gloves, boots, respirator and eye protection.

ADG Classification PAINT RELATED MATERIAL, immiscible in water, U.N. 1263, Class 3, HAZCHEM 3[Y]E, Packing Group II.

SUSDP Classification Classified as a Schedule 5 poison.

FIRST AID MEASURES

Inhalation If the applicator feels drowsy, dizzy, tired or experiencing headaches, remove the victim to the fresh air. Keep the victim warm and quiet until all symptoms subside.

Ingestion If swallowed and only if the person is conscious, give water to drink. Rinse mouth with water. **DO NOT** induce vomiting. Seek URGENT medical attention if frothing from the mouth occurs.

Eyes If splashed into eyes, hold eyes open, irrigate copiously with clean water for at least 15 minutes. Seek immediate medical attention if any irritation occurs.

Skin If skin contact occurs, remove contaminated clothing, and wash thoroughly with soap and plenty of water. Seek medical attention if any irritation occurs.

First Aid Clean Water Supply, soap or skin cleaner, barrier cream,

Facilities	emergency showers and eye wash stations.
Advice to Doctor	If poisoning occurs, consult with the Poisons Information Centre {Telephone **13 11 26**}. Have a copy of this material safety data sheet or label available. Treat symptomatically. n-Butanol is toxic if aspired. The vapour appears to cause a special vacuolor keratopathy in humans. n-Butanol inhalation may aggravate asthma and inflammatory or fibrotic pulmonary disease.

FIRE FIGHTING MEASURES

Extinguishing Media and Requirements	Carbon Dioxide {CO_2}, alcohol resistant foam, dry chemical or water spray. **DO NOT** use water jets. Bund area with sand to prevent run – off entering waterways and drains.
Fire Fighting Procedures & Precautions	Fire – fighters should wear Chemical Splash Suit with attached Self – Contained Breathing Apparatus and gloves. Evacuate all non fire–fighting personnel away from the area. Turn off all electricity and power supplies. Keep containers cool with water spray or water to prevent rupture or burning. Move away all containers and equipment from the direction of the fire, if safe to do so. Keep upwind.
Flammability	Highly Flammable Liquid. Flash Point = – 17 ^{o}C
Hazardous Decomposition Products	On heating, containers may rupture and explode; contents may burn rapidly forming toxic gases including carbon monoxide.

ACCIDENTAL RELEASE MEASURES

Spills and Leaks	Contain all spills and leaks. Avoid contamination with spilt material on surfaces. Remove all sources of ignition and **NO SMOKING**. Wear the recommended full body impervious clothing, gloves and breathing apparatus as per AS– NZ 1715/16. Keep upwind. Absorb all spilt contents onto sand or earth.
Disposal	Collect all residues into labelled and sealed containers for disposal via special waste collection services as per local Statutory Authority requirements.
Other Precautions	Avoid contaminating waterways, drains, water courses and sewage.

HANDLING and STORAGE

Handling	Keep out of reach of children. Avoid unnecessary contact with the material. After use before eating, drinking or smoking wash all exposed skin with soap and water.
Storage	Containers must be clearly labelled, rigid and strong. Store upright in a cool, dry, well ventilated area from heat, ignition sources and direct sunlight e.g. Flammable Goods Store as per AS 1940 requirements.

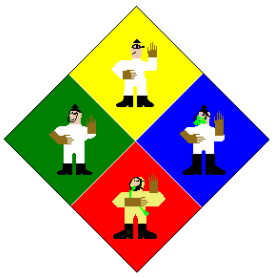
EXPOSURE CONTROLS

Exposure Standards TWA	Acetone = 1185 mg/m^3 TWA n-Butanol = 152 mg/m^3.TWA	Diacetone Alcohol = 238 mg/m^3 TWA
Exposure Standards STEL	Acetone = 2375 mg/m^3 STEL	n-Butanol = Peak Limitation, Sk.

Engineering Controls	When applying the product, ensure there is adequate ventilation during the application period. Use mechanical exhaust ventilation system that is explosion proof. Do not use in a confined space.

PERSONAL PROTECTION

Inhalation	The wearing of an Organic Vapour Respirator is
AS –NZS 1715/16	recommended during the application period.
Eye	The wearing of safety glasses fitted with side shields is
AS –NZS 1337	recommended during the application period. Do not wear contact lenses.
Gloves	The wearing of Viton or PVC gloves is recommended
AS –NZS 2161	during the application period.
Footwear	The wearing of enclosed footwear during the
AS –NZS 2210	application period
Clothing	The wearing of anti–static clothing made on natural or
AS –NZS 2919	synthetic high temperature fibre is recommended during the application period
Hearing	Not Required
AS –NZS 1270	
Other Requirements	Avoid contact with eyes and skin. Wear the recommended Personal Protective Equipment as described.



PHYSICAL – CHEMICAL PROPERTIES

Appearance	A colourless liquid with a strong odour.	
pH	Not required.	
Vapour Pressure ***(Butyl Acetate = 1)***	Greater than 1.	
Boiling Point ^{o}C	56-168 ^{o}C {literature value}	
Density	0.81 {literature value}	
Solubility in water	Miscible	
Flash Point ^{o}C	– 17 ^{o}C {literature value}	
Flammability Limits	Lower Explosive Limit = 2.6%	Upper Explosive Limit = 13.0%
Auto Ignition ^{o}C	540 ^{o}C {literature value}	
Volatile Components	Organic Solvent 100%	

STABILITY and REACTIVITY

Chemical Stability	Stable under normal conditions of use.
Hazardous Polymerization	Will not polymerize.
Conditions to avoid	Avoid contact heat and all ignition sources.
Incompatible materials	Incompatible with strong oxidizing agents
Hazardous decomposition products	Stable.

TOXICOLOGICAL INFORMATION

Inhalation	LC_{50}	rat	Acetone - 32000ppm for 4 hours; n-Butanol 8000ppm/4hrs
Skin	LD_{50}	rabbit	Acetone 20 g/kg
Ingestion	LD_{50}	rat	Acetone – 5.8-8.4 g/kg;, n-Butanol 790mg/kg, Diacetone alcohol 4000mg/kg
Eyes			n-Butanol causes severe irritation
Sensitization			– non sensitizer

Inhalation	The inhalation of vapours may cause acute irritation in the respiratory tract. Other symptoms may cause central nervous system depression resulting in headaches, dizziness, nausea, loss of co-ordination and impaired judgement.
Ingestion	Large quantities may cause nausea and vomiting.
Eyes	Causes severe irritation to the eyes, including burning sensation, redness, swelling and/or blurred vision.
Skin	Will have degreasing effect on the skin may result in contact dermatitis.
Carcinogenicity	Not carcinogenic in animal studies.
Mutagenicity	Not mutagenic in animal studies.

ECOLOGICAL INFORMATION

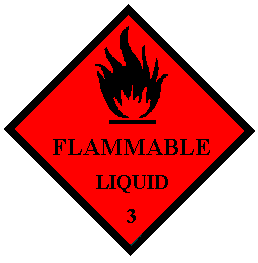
Ecotoxicity	n-Butanol is slightly water polluting. Biodegradation 92% at 20 days.
Persistence/Degradability	Acetone is expected to biodegrade rapidly and be readily biodegradable. Diacetone Alcohol is readily biodegradable (100%, 14 days)
Mobility	Acetone has negligible tendency to bioaccumulate.

DISPOSAL CONSIDERATIONS

Collect all residues and placed into labelled and sealed containers. Do not incinerate empty containers after use. Dampen all unwanted cloths and rags in water prior to disposal. Do not recycle contents or spent containers. Larger containers and drums may be sent to an approved drum recycler. Ensure all contents do not pollute waterways, drains and other water courses.

TRANSPORT INFORMATION

UN number	1263		
Proper Shipping Name	Paint Related Material		
Class	3	***Subsidiary Risk***	Not Required
Packing Group	II		
Emergency Procedures	EP 3300	***Initial Emergency Response Guide***	14
HAZCHEM	3[Y]E		
IMDG			



REGULATORY INFORMATION

OTHER INFORMATION

Emergency Contact **Poisons Information Centre 13 11 26** **HiChem Paint Technologies (03) 9796 3400**

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