

Emergency Telephone No. +612 9634 5560

Date Of Issue : 30/04/07

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Ref msds 00109a**MATERIAL SAFETY DATA SHEET**  
**UT150 UTHANE - PART "A"****Hazardous according to criteria of Worksafe Australia****IDENTIFICATION**

**PRODUCT NAME** : UT150 UTHANE - PART " A "

**AVAILABLE COLORS** : White Gloss, Various tints, Clear Gloss

**OTHER NAMES** : Not applicable

**U.N. NUMBER** : 1263

**DANGEROUS GOODS CLASS** : 3.1 ( Flammable Liquid)

**SUBSIDIARY RISK** : Nil

**HAZCHEM CODE** : 3[Y]E

**POISONS SCHEDULE** : S5

**EPG** : 3C1

**USE** : Reactive acrylic spray coating to provide a tough, durable air dried or force dried finish with the properties of baked enamels on suitably prepared surfaces.

**For industrial or automotive use only in spray areas complying with relevant regulations.**

**This product is one component of a two component system.**  
**Both components must be mixed together immediately prior to use.**

**PHYSICAL DESCRIPTION / PROPERTIES**

**APPEARANCE** : Various colors. Strong lacquer odor.

**BOILING POINT** (°C) : 138.0 (Xylene)

**VAPOR PRESSURE** (kPa @ 38°C) : 5.2 (Xylene)

**SPECIFIC GRAVITY** (@ 25°C) : 0.980 - 1.290 (Depends on color) (Water =1)

**% VOLATILES** (by volume) : 50.0 – 60.0 (Depends on color)

**EVAPORATION RATE** : 0.7 (Butyl Acetate =1) (Xylene)

**FLASH POINT** (°C) : 27.0 Tag Closed Cup (Xylene)

**FLAMMABILITY LIMITS** (% volume) : 1.7 LEL / 7.0 UEL (Xylene)

**AUTOIGNITION TEMPERATURE** (°C) : 499.0 (Xylene)

**SOLUBILITY IN WATER** (% weight) : Negligible

**OTHER PROPERTIES**

: Flammable, vapors can readily form explosive mixture with air

**INGREDIENTS**

<b>CHEMICAL ENTITY</b>	<b>CAS No.</b>	<b>PROPORTION ( % w/w )</b>
XYLENE	1330-20-7	20 - 60
PETROLEUM HYDROCARBON MIXTURE	N/A	< 10
BUTYL ACETATE	123-86-4	< 10
2-ETHOXY ETHYL ACETATE	111-15-9	< 10
1-METHOXY-2-PROPYL ACETATE	108-65-6	< 10
ACRYLIC POLYOLS, HYDROXY FUNCTIONAL	Proprietary Blend	20 - 60
MISCELLANEOUS ADDITIVES	N/A	< 10
PIGMENTS	Non-Hazardous	0 - 30

More detailed information available to medical staff in case of an emergency.  
All components are registered in accordance with Australian Inventory of Chemical Substances.

**UT150 UTHANE - PART "A"****HEALTH HAZARD INFORMATION****HEALTH EFFECTS - ACUTE EXPOSURE**

**SWALLOWED** : Ingestion may result in irritation of the mouth and throat.  
Ingestion of small quantities can result in headache, weakness, dizziness nausea, vomiting and diarrhoea.  
Ingestion of larger amounts may lead to unconsciousness.  
If the victim is uncoordinated there is a greater likelihood of vomit entering the lungs and causing subsequent complications.

**EYE** : Vapor and liquid can cause irritation.  
A moderate eye irritant.  
May cause redness, tearing or blurred vision.

**SKIN** : Contact with the skin may result in mild to moderate irritation.  
Will have a degreasing action on the skin.

**INHALED** : Vapor is irritant to mucous membranes and respiratory tract.  
Inhalation of high concentrations can cause central nervous system depression with effects such as loss of co-ordination, impaired judgment, headache and, if exposure is prolonged, unconsciousness.

**HEALTH EFFECTS - CHRONIC EXPOSURE**

**SKIN** : Prolonged or repeated skin contact causes severe irritation and may lead to irritant contact dermatitis.  
Can be absorbed through the skin.

**FIRST AID**

**SWALLOWED** : Rinse mouth with water.  
Give milk or water to drink.  
Do **NOT** induce vomiting.  
Should vomiting occur, place patient's head downwards, head lower than hips, to prevent vomit entering the lungs.  
This is especially important as aspiration of this material into the lungs can cause chemical pneumonia, which can be fatal.  
Call a doctor and/or transport to an emergency facility or hospital immediately.

**EYE** : Immediately and continuously irrigate with copious quantities of water for at least 15 minutes.  
Eyelids should be held open.  
Seek immediate medical attention.

**SKIN** : Remove contaminated clothing and wash the affected areas thoroughly with water, then mild soap and water.  
If exposure has been prolonged or severe immediately drench with water and remove clothing.  
if swelling, redness or irritation occurs seek medical advice.  
Launder contaminated clothing before re-use.

**INHALED** : Remove affected person(s) to fresh air, taking care not to become affected yourself.  
Remove any contaminated clothing and loosen remaining clothing.  
If breathing is normal, allow the patient to assume the most comfortable position and keep warm.  
Keep at rest until fully recovered.  
If breathing is difficult and patient is cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a face mask.  
If breathing has stopped, commence Expired Air Resuscitation (E.A.R.).  
In the event of cardiac arrest, commence Cardio-Pulmonary Resuscitation (C.P.R.) and seek immediate medical attention.

**ADVICE TO DOCTOR** : Treat symptomatically.

**UT150 UTHANE - PART "A"****PRECAUTIONS FOR USE****EXPOSURE LIMITS :**

No value has been assigned for this specific material by the N.H.M.R.C.  
However for some of the components :-

**XYLENE**

TLV-TWA	- 80 ppm	(350 mg/m <sup>3</sup> )	WORKSAFE 1991
STEL	- 150 ppm	(655 mg/m <sup>3</sup> )	WORKSAFE 1991

**BUTYL ACETATE**

TLV-TWA	: 150 ppm (713 mg/m <sup>3</sup> ) / STEL 200 ppm (950 mg/m <sup>3</sup> )	A4
ES TWA	: 150 ppm (713 mg/m <sup>3</sup> ) / STEL 200 ppm (950 mg/m <sup>3</sup> )	
PEL (PERMISSIBLE EXPOSURE LIMIT)	: 710 mg/m <sup>3</sup> (150 ppm)	

NOTE	: This substance has been classified by the ACGIH as A4 NOT classifiable as causing Cancer in humans.
CARCINOGENICITY	: NTP: NO IARC: NO Z LIST: NO OSHA REG: NO
IDLH Level	: 10,000 ppm
Odour Threshold Value	: 0.0063 ppm (detection), 0.038 - 12 ppm (recognition)

**2-ETHOXYETHYL ACETATE**

TLV-TWA	- 5 ppm (27 mg/m <sup>3</sup> )	NOHSC-1991 (Worksafe Australia) "Sk" "Peak Limitation"
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TLV is the time weighted average concentration of the workplace atmosphere for a normal 8 hour work day and a 40 hour work week, to which nearly all workers may be repeatedly exposed day after day without adverse effect.  
These TLV's are issued as guidelines only and should not be interpreted as the fine line between safe and dangerous conditions.  
All atmospheric contamination should be kept to as low a level as is practically possible.

STEL's are expressed as airborne concentrations of substances, averaged over a period of 15 minutes.  
This short term TWA concentration should not be exceeded at any time during a normal 8 hour working day.  
Workers should not be exposed at the STEL concentration continuously for longer than 15 minutes, or for more than four such periods per working day.  
A minimum of 60 minutes should be allowed between successive exposures at the STEL concentration.

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

"Peak Limitation" - a ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.

**ENGINEERING CONTROLS :**

- Ensure sufficient ventilation to maintain concentration below exposure standard.
- Use with local exhaust ventilation or while wearing organic vapor respirator.
- The effectiveness of an air purifying respirator is limited.
- Use it only for a single, short term exposure.

NOTE : Vapor is heavier than air and may collect in hollows, pits storage tanks or sumps.  
Do NOT enter confined spaces where vapor may have collected without using an approved, positive pressure, self-contained breathing apparatus (meeting the requirements of AS1715 & AS1716) and an observer present for assistance.

**UT150 UTHANE - PART "A"****PRECAUTIONS FOR USE (Continued)****PERSONAL PROTECTION :**

Skin contact should be avoided by wearing chemically resistant work clothing, boots and gloves.  
Eyes should be protected by chemical splash goggles or safety glasses fitted with side shields.  
If vapor causes eye irritation or if an inhalation risk exists a full-face, organic vapor respirator (meeting the requirements of AS1715 & AS1716) should be used.

**NOTE :** Make sure the correct cartridges are used for the potential air contamination.

The effectiveness of an air purifying respirator is limited.

Use it only for a single, short term exposure.

For emergency and other conditions where the exposure guide line may be greatly exceeded, use an approved, positive pressure, self-contained breathing apparatus (meeting the requirements of AS1715 & AS1716) and an observer present for assistance.

**ALWAYS** wash hands before eating, drinking, smoking or using the toilet.

**FLAMMABILITY** : Can readily form flammable mixture with air.

Flammable liquid.

Avoid all ignition sources.

Avoid direct sources of heat.

Flameproof equipment necessary where this product is being used.

Nearby equipment should be earthed.

**UT150 UTHANE - PART "A"****SAFE HANDLING INFORMATION****STORAGE AND TRANSPORT**

UN No : 1263  
PACKAGING GROUP : II  
Class : 3.1 (Highly Flammable Liquid)  
EPG : 3C1

Class 3 flammable liquids shall **NOT** be loaded in the same vehicle with :

- Class 1 Explosives
- Class 2.1 Flammable gases (when both in bulk)
- Class 2.3 Poisonous gases
- Class 4.2 Spontaneously combustible substances
- Class 5.1 Oxidizing agents
- Class 5.2 Organic peroxides
- Class 7 Radioactive substances
- Halogens (Chlorinated compounds & etc.)
- Foodstuffs and foodstuff empties.

Refer to Australian Code for the Transport of Dangerous Goods By Road and Rail (6<sup>th</sup> Edition) for transport regulations and State Dangerous Goods regulations for storage requirements.

Materials are stable on storage, but should be stored in a cool, well ventilated area away from sources of ignition, oxidizing agents and odor sensitive materials.

Keep containers tightly closed when not in use and check regularly for leaks.

Use non-sparking tools and equipment.

**SPILLS AND DISPOSAL**

Shut off all possible sources of ignition.

Instruct others to keep at a safe distance.

Advise authorities product has entered or may enter sewers, watercourses or extensive land areas.

Small spills may be absorbed onto any absorbent material such as sand, soil or vermiculite.

With large spills:

Wear breathing apparatus, gloves and full protective clothing.

Stop liquid at the source.

Dyke the area to prevent spreading and to prevent it entering sewers, drains or natural waterways.

Pump the liquid to a salvage tank.

Absorb remaining material with suitable absorbent (sand, soil & etc.).

Shovel into sealed containers for later disposal.

Ventilate area well to evaporate remaining liquid and to dispel vapor.

**DISPOSAL** : Refer to State Waste Management Authority. Advise of flammable nature  
Normally suitable for incineration by an approved agent.

**FIRE AND EXPLOSION HAZARD**

Flammable liquid.

When burning may form toxic materials such as carbon monoxide, carbon dioxide, various hydrocarbons, fumes and smoke.

Heating can cause rupturing of containers with explosive force.

If safe to do so, remove containers from the path of the fire and keep cool with water spray.

Firefighters should wear self-contained breathing apparatus with a full face piece and operated in positive pressure mode.

**FIRE FIGHTING:** Use foam, carbon dioxide or dry chemical.  
Water spray may be ineffective.

**UT150 UTHANE - PART "A"****OTHER INFORMATION****TOXICITY**

No LD<sub>50</sub> data available for this specific product.

However for some of the components

**XYLENE**

Oral	LD <sub>50</sub> (rat)	: 4,300 mg/kg
Dermal	LD <sub>50</sub> (rabbit)	: >2,000 mg/kg
Inhalation	LC <sub>50</sub> (rat)	: 5,320 ppm/8 hours
Inhalation	TLCO (human)	: 200 ppm Irritant (CNS recording changes, hallucinations)
Eyes		: Moderate irritant
Skin		: Mild irritant

Evidence from animal tests is available to indicate that repeated or prolonged exposure to Xylene could result in liver, kidney and central nervous system disorders.

**BUTYL ACETATE**

Oral	LD <sub>50</sub> (rat)	: 13,100 mg/kg
Oral	LD <sub>50</sub> (mouse)	: 7,060 mg/kg
Oral	LD <sub>50</sub> (rabbit)	: 3,200 mg/kg
Inspired	LD <sub>50</sub> (mouse)	: 1,230 mg/kg
Dermal	LD <sub>50</sub> (rabbit)	: > 5,000 mg/kg
Inhalation	LC <sub>50</sub> (rat)	: 2,000 ppm/4 hours
Inhalation	LC <sub>50</sub> (rat)	: < 391 ppm/4 hr (aerosol)
Inhalation	TLCO (human)	: Not Available (CNS recording changes, hallucinations)
Skin (rabbit)		: 500 mg/24 hr, mild to moderate irritant
Eye (rabbit)		: 20-100 mg, moderate to severe irritant

**2-ETHOXYETHYL ACETATE**

Oral	LD <sub>50</sub> (rat)	: 2,900 mg/kg
Dermal	LD <sub>50</sub> (rabbit)	: 10,500 mg/kg
Inhalation	LC <sub>50</sub> (rat)	: 12,100 mg/m <sup>3</sup> /8 hours
Eyes	(rabbit)	: Moderate Irritant
Skin		: Harmful
Other		: Harmful if swallowed or by inhalation.

Inhalation studies conducted in rats and rabbits during gestation produced maternal and developmental toxicity at 100-300 ppm, including teratogenicity at 200-300 ppm.

There was no evidence of maternal or developmental toxicity (including teratogenicity) in either species at 50 ppm. (Tyl, R.W. et al; Fundam. Appl. Toxicol. 1988, 10(1), 20-39).

**PETROLEUM HYDROCARBONS**

Evidence from animal tests is available to indicate that repeated or prolonged exposure to hydrocarbon solvents could result in liver, kidney and central nervous disorders.

**REACTIVITY / COMPATIBILITY**

Hazardous polymerization	: Cannot occur
Stability	: Stable
Incompatibility	: Avoid contact with strong alkalis, mineral acids, halogens and strong oxidizers.



Date Of Issue : 30/04/07

Manufacturers of UTHANE Polyurethane Coatings  
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Phone +612 9729-2000 Fax +612 9729-2279

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## UT150 UTHANE - PART "A"

### CONTACT POINT

#### B.C COATINGS

2 Hume Road, Smithfield, N.S.W. 2164

Phone (02) 9729-2000, FAX (02) 9729-2279

Emergency Telephone No. +612 9634-5560

The following personnel should be contacted depending on the nature of the inquiry.

TECHNICAL MANAGER                      PRODUCTION MANAGER

MANAGING DIRECTOR                      SALES                      MANAGER

AUSTRALIAN POISONS INFORMATION CENTRE                      24 HOUR SERVICE                      : 13 11 26

POLICE OR FIRE BRIGADE                      : 000                      (exchange) : 1100

NEW ZEALAND POISONS INFORMATION CENTRE

Dunedin                      : (03) 479 1200 (Normal hours)

: (03) 474 0999 (Emergency)

Released by :

Safety Data Sheets are current for a maximum of three years but may be updated more frequently.

Please ensure that you have a current copy.

This Fact Sheet is a summary source of information of all potential and most severe health hazards that may result from exposure.

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