

# MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
Product Name:	SISCOTHANE AC (PART B)
Product Use:	Polyurethane coating, solvent based
Manufacturer/Supplier:	SISSONS PAINTS (THAILAND) LTD.
Address:	91/2 Moo 3 Suwinthawong Road, Minburi, Bangkok 10510 Tel. +66(0) 2517 1146, +66(0) 2918 6760-1, Fax. +66(0) 2517 2137
SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS	
Chemical Characteristic :	Aliphatic polyisocyanate
<b>Ingredients</b>	<b>CAS.No.</b>
Hexamethylene-1,6-diisocyanate homopolymer	28182-81-2
Xylene	1330-20-7
SECTION 3 HAZARDS IDENTIFICATION	
	Flammable. Harmful by inhalation. May cause sensitization by skin contact. Risk of absorption through the skin of xylene. Contains isocyanates.
SECTION 4 FIRST AID MEASURES	
Eye contact:	Immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritations persist, repeat flushing. Obtain medical attention immediately.
Skin contact:	In case of contact, immediately flush skin with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse. If the irritations persist, obtain medical attention.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.
Ingestion:	Do not induce vomiting. Get immediate medical attention.
SECTION 5 FIRE FIGHTING MEASURES	
Hazardous combustion products:	Thermal decomposition products can include, but are not limited to Hydrogen Chloride, Oxides of Nitrogen and Carbon Monoxide.
Extinguishing media:	Use dry chemical, foam, or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus.
Unsuitable extinguishing media:	High volume water jet.
SECTION 6 ACCIDENTAL RELEASE MEASURES	
Personal precautions:	Put on protective equipment (see chapter 8). Keep away from sources of ignition. Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away.
Environmental precautions:	Do not allow to escape into waterways, wastewater or soil.
Methods for cleaning up:	Remove mechanically; cover the remainder with wet, absorbent material (e.g. sawdust, chemical binder based on calcium silicate hydrate, sand). After approx.one hour transfer to waste container and do not seal (evolution of CO2!). Keep damp in a safe ventilated area for several days.

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SECTION 7 HANDLING AND STORAGE	
<b>Handling:</b>	<p>Provide sufficient air exchange and/or exhaust in work rooms. Exhaust ventilation necessary if product is sprayed. The threshold limit values noted in Chapter 8 must be monitored. In all areas where isocyanate aerosols and/or vapor concentrations are produced in elevated concentrations, exhaust ventilation must be provided in such a way that the workplace exposure limits (WEL) is not exceeded. The air should be drawn away from the personnel handling the product</p> <p>The personal protective measures described in Chapter 8 must be observed. The precautions required in the handling of solvents and isocyanates must be taken. Avoid contact with skin and eyes and the inhalation of vapor.</p>
<b>Storage:</b>	<p>Keep container dry and tightly closed in a cool and well ventilated place. Further information on the storage conditions which must be observed to preserve quality can be found in our product information sheet.</p>
SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION	
<b>Respiratory protection:</b>	<p>Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter is recommended.</p> <p>In case of hypersensitivity of the respiratory tract and skin (e.g. asthmatics and those who suffer from chronic bronchitis and chronic skin complaint) it is inadvisable to work with the product.</p>
<b>Hand protection:</b>	<p>Conditionally suitable materials for protective gloves; EN 374-3:fluorinated rubber - FKM (<math>\geq 0,4</math> mm)</p> <p>Only suitable as splash protection. Only suitable for brief exposure. In the event of contamination, change protective gloves immediately.</p>
<b>Eye protection:</b>	<p>Wear eye/face protection.</p>
<b>Skin and body protection:</b>	<p>Wear suitable protective clothing.</p>
<b>Hygiene measures:</b>	<p>Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at the end of workday. Keep working clothes separately. Take off all contaminated clothing immediately.</p>
SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES	
<b>Physical State:</b>	Clear Liquid
<b>Odor:</b>	Solvent
<b>Viscosity, @ 25°C:</b>	100 cPs
<b>Specific Gravity, @ 25°C:</b>	1.00±0.05
<b>Ignition temperature:</b>	460°C
<b>Flash point:</b>	38°C
<b>Solubility in water:</b>	Not soluble. Reacts slowly with water to liberate CO <sub>2</sub> gas.
SECTION 10 STABILITY AND REACTIVITY	
<b>Hazardous reactions:</b>	<p>Exothermic reaction with amines and alcohols; reacts slowly with water forming CO<sub>2</sub>, in closed containers risk of bursting owing to increase of pressure.</p>
<b>Hazardous decomposition: products</b>	<p>No hazardous decomposition products when stored and handled correctly.</p>

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## SECTION 11 TOXICOLOGICAL INFORMATION

Toxicological studies on the preparation are not available.  
Toxicological tests carried out on another from supplied

## SECTION 12 ECOLOGICAL INFORMATION

Do not allow to escape into waterways, wastewater or soil.

Ecotoxicological testing of a different supply form yielded the following results:

Biodegradability: 1 % , i.e. not degradable  
Method: OECD Guideline for Testing of Chemicals, No.301 D

Toxicity to fish: LC50 14,8 mg/l  
Test species: Brachydanio rerio (zebra fish) Duration of test: 96 h

Acute toxicity for daphnia: > 100 mg/l  
Test species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

Acute bacterial toxicity: EC50 100 - 1.000 mg/l  
Tested on: activated sludge  
Method: OECD Guideline for Testing of Chemicals, No.209

Acute toxicity for algae:  
Tested on: scenedesmus subspicatus  
Method: OECD Guideline for Testing of Chemicals, No.201  
No toxic effects with saturated solution.

Further information on ecology: The product reacts with water at the interface forming CO<sub>2</sub> and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by watersoluble solvents. Previous experience shows that polyurea is inert and non-degradable.

## SECTION 13 DISPOSAL CONSIDERATIONS

Waste disposal information: Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with all applicable federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

## SECTION 14 TRANSPORT INFORMATION

ADR/RID  
UN Number : 1866  
Description of the goods : RESIN SOLUTION, FLAMMABLE  
Packaging group : III  
Risk No. : 30  
hazard label : 3  
Other information : Combustible. Keep dry.  
Keep separated from foodstuffs.

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## SECTION 15 REGULATORY INFORMATION

Labeling and classification in accordance with the EC Dangerous Preparations Directive (1999/45/EC) and subsequent amendments

Xn	Harmful
Contains:	hexamethylene-1,6-diisocyanate homopolymer
Contains isocyanates.	See information supplied by the manufacturer.

R10 Flammable.  
R20 Harmful by inhalation.  
R43 May cause sensitisation by skin contact.  
S23 Do not breathe spray, vapour.  
S24 Avoid contact with skin.  
S37 Wear suitable gloves.  
S51 Use only in well-ventilated areas.

## SECTION 16 OTHER INFORMATION

The information and recommendations contained herein are based on information believed to be correct. However, no guarantee or warranty of any kind, expressed or implied is made with respect to the information provided herein.