

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **MASTERTOP TC 495**
Other name: None allocated
Product code: --
Recommended use: Non-yellowing single pack polyurethane for floor coatings.
Company: BASF Construction Chemicals Australia Pty Ltd.
ABN: 46 000 450 288
Address: 11 Stanton Road,
Seven Hills, NSW, 2147, Australia
Telephone number: +61 2 8811 4200
Facsimile: +61 2 8811 3299
Company: BASF Construction Chemicals New Zealand Ltd.
Address: 45 William Pickering Drive,
Albany, Auckland, New Zealand
Telephone number: +64 9 414 7233
Facsimile: +64 9 414 7244
Emergency telephone number: 0417 658 263, 0438 988 699

2. HAZARDS IDENTIFICATION

Hazard classification: Hazardous according to criteria of NOHSC
Dangerous goods classification according to the Australian Dangerous Goods Code.

Risk phrase(s): R10 - Flammable.
R38 - Irritating to skin.
R20/21 - Harmful by inhalation and in contact with skin.
R42/43 - May cause sensitisation by inhalation and skin contact.

Safety phrase(s): S16 - Keep away from sources of ignition – No smoking.
S23 - Do not breathe gas/fumes/vapour/spray.
S25 - Avoid contact with eyes.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 - After contact with skin, wash immediately with plenty of soap and water.
S29 - Do not empty into drains.
S38 - If insufficient ventilation, wear suitable respiratory equipment.
S44 - If you feel unwell, contact a doctor or Poisons Information centre immediately (show the label where possible).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion
Xylene		1330-20-7 30 - 60%
Urethane polymer		30 - 60%
Propylene glycol	108-65-6	10 -< 30%
Monomethyl ether acetate methylene bis-(4-cyclohexylisocyanate)	5124-30-1	< 10%

BASF Material Safety Data Sheet according to NOHSC: 2011 (2003)

MATERIAL SAFETY DATA SHEET

4. FIRST AID MEASURES

- Ingestion: Do NOT induce vomiting. Wash mouth and give a glass of water. Seek medical attention immediately.
- Eyes: If in eyes, wash out immediately with water. If symptoms persist seek medical attention.
- Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Wash contaminated clothing before re-use. If irritation occurs seek medical advice.
- Inhalation: Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a facemask if breathing is difficult. Apply artificial respiration if not breathing. Seek medical attention.
- First aid facilities: Eye wash fountains and safety showers should be easily accessible.
- Advice to doctor: Treat symptomatically.

5. FIRE FIGHTING MEASURES

- Suitable extinguishing media: Foam and dry chemical.
- Hazards from combustion products: Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide and oxides of nitrogen.
- Specific hazards: This product is flammable. Vapours are heavier than air and will "travel" to low-level areas, e.g. sumps, drains, etc. and flashback. Precautions should be taken to eliminate the build up of explosive mixtures.
- Precautions in connection with fire: Water spray may be used to keep fire exposed containers cool.
- Hazchem code: 3[Y]

6. ACCIDENTAL RELEASE MEASURES

- Methods for clean up / collecting: If possible contain spill by absorbing with dry, inert filler (vermiculite, soil or sand) onto material. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. Mop up the remaining material and place in the same container.
- Environmental precautions: Do not discharge into sewers or drains. If large quantities of this material enter the waterways, contact the Environmental Protection Agency, or you local Waste Management Authority.
- Personal precautions: Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear self-contained breathing apparatus and full protective clothing to minimise skin and eye exposure.

7. HANDLING AND STORAGE

- Conditions for safe storage: Store in a cool, dry, well-ventilated area away from sources of ignition. This product should be stored away from foodstuffs and strong oxidising agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards

Australia:

The following National Occupational Health and Safety Commission (NOHSC) exposure limits apply:

Ingredient	Cas No.	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Xylene	1330-20-7	80	350	150	655

BASF Material Safety Data Sheet according to NOHSC: 2011 (2003)

MATERIAL SAFETY DATA SHEET

Isocyanates, all (as NCO) - 0.02 - 0.07

New Zealand:

The following New Zealand Workplace Exposure Standards apply:

Ingredient	Cas No.	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Xylene	1330-20-7	50	217	-	-
Isocyanates, all (as NCO)		-	0.02	-	0.07

Engineering controls

Ensure sufficient ventilation to keep airborne concentrations below exposure limits. Mechanical exhaust ventilation may be required.

Personal protection

Respiratory protection: If engineering controls are not effective in controlling airborne exposure then a supplied air respirator should be used. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716 - Respiratory Protective Devices.

Hand protection: Impervious nitrile or PVA gloves should be worn to avoid prolonged skin contact.

Eye protection: Safety glasses with side shields, goggles or full face shield should be worn as described in Australian Standard AS/NZS 1337 – Eye Protectors for Industrial Applications..

Body protection: Suitable protective clothing should be worn, e.g. cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended.

Hygiene measures: Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear amber liquid with an aromatic hydrocarbon odour.
Boiling point (°C):	137 - 143*; 145**
Vapour pressure:	5.2kPa at 38°C*; 0.53kPa at 20°C**
Vapour density:	3.7 (air = 1)*; Not available**
Evaporation rate:	0.7 (n-butyl acetate = 1)*
Specific gravity:	1.03 - 1.08 (water = 1)
Flash point (°C):	29 (PMCC)
Flammability limits (%):	UEL – 7.7 LEL – 1.1
Solubility in water:	Insoluble
Other information:	* for xylene; ** for propylene glycol monomethyl ether acetate (PGMA)

10. STABILITY AND REACTIVITY

Hazard of use/storage:	Stable under normal storage and application temperature.
Materials to avoid:	Halogens, molten sulfur, strong oxidising agents, water.
Hazardous polymerisation:	Will not occur.

MATERIAL SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

Xylene

- LD50 (oral, rat) = 4300 mg/kg
- LD50 (dermal, rabbit) > 1700 mg/kg
- LC50 (inhalation, rat) = 5000 ppm/4H

Propylene glycol monomethyl ether acetate

- LD50 (oral, rat) = 8532 mg/kg
- LD50 (dermal, rabbit) > 5000mg/kg

Inhalation: Harmful by inhalation. Inhalation of product vapours will cause irritation of the nose, throat and respiratory system. Inhalation may cause sensitisation in some individuals. High concentrations of aromatic hydrocarbons, in general, can cause laryngeal and bronchial irritation, pneumonitis, severe breathing difficulties, and other effects relating to respiratory tract irritation. Intravenous injection or pulmonary aspiration of xylene can result in chemical pneumonitis, haemorrhage, and noncardiogenic pulmonary oedema.

Ingestion: May cause irritation. Small amounts of liquid aspirated into the respiratory system during ingestion, or from vomiting may cause bronchopneumonia or pulmonary oedema. Symptoms following ingestion of this product may include gastrointestinal irritation, nausea, vomiting and cramping. CNS depression, ranging from mild headache to anaesthesia and coma. Liver and kidney injury delayed. Effects may include anuria, dysuria, hematuria and laboratory evidence of kidney damage; hepatic tenderness, jaundice, liver enlargement and other evidence of liver damage. Pulmonary irritation secondary to exhalation of solvent.

Eye: May cause eye irritation, tearing, stinging, blurred vision, and redness.

Chronic effects

Prolonged or repeated skin contact may lead to allergic contact dermatitis and sensitisation in some individuals. The skin may react producing redness, irritation, weals or pustules. Prolonged or repeated exposure to product vapours may lead to sensitisation and occupational asthma. Prolonged inhalation may cause central nervous system depression with symptoms including dizziness, drowsiness, nausea and headaches.

12. ECOLOGICAL INFORMATION

Ecology: Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain hazardous residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Dispose of according to relevant government regulations.

14. TRANSPORT INFORMATION

UN number:	1866
Dangerous goods class:	3
Subsidiary risk:	None allocated
EPG card:	3A1
Shipping name:	RESIN SOLUTION
Packing group:	III
Poisons schedule:	6

BASF Material Safety Data Sheet according to NOHSC: 2011 (2003)

MATERIAL SAFETY DATA SHEET

Hazchem code: 3[Y]

15. REGULATORY INFORMATION

Poisons schedule (Australia): S6

Poisons schedule (New Zealand): Product is classified as schedule 3 (S3) Standard Poison in the New Zealand Toxic Substances Regulations 1983.

Hazard category: Harmful, irritant.

Risk phrase(s):

- R10 - Flammable.
- R38 - Irritating to skin.
- R20/21 - Harmful by inhalation and in contact with skin.
- R42/43 - May cause sensitisation by inhalation and skin contact.

Safety phrase(s):

- S16 - Keep away from sources of ignition – No smoking.
- S23 - Do not breathe gas/fumes/vapour/spray.
- S25 - Avoid contact with eyes.
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S28 - After contact with skin, wash immediately with plenty of soap and water.
- S29 - Do not empty into drains.
- S38 - If insufficient ventilation, wear suitable respiratory equipment.
- S44 - If you feel unwell, contact a doctor or Poisons Information centre immediately (show the label where possible).

16. OTHER INFORMATION

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. All information contained in this MSDS is as accurate and up-to-date as possible. No warranty expressed or implied is made as to its accuracy, reliability or completeness.