

## SAFETY DATA SHEET

### MASTERFLEX 474

#### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

**PRODUCT NAME:** MASTERFLEX 474

**PART No.:** BIP350

**SUPPLIER:** BASF Construction Chemicals (UK) Ltd  
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#### 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	EINECS No.	CAS No.	CONTENTS	SYMBOL	RISK (R No.)
XYLENE	215-535-7	1330-20-7	1-5 %	Xn	10, 20/21, 38
1,2,4-TRIMETHYLBENZENE	202-436-9	95-63-6	1-5 %	Xn, N	10, 20, 36/37/38, 51/53
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT; KEROSENE - UNSPECIFIED	265-149-8	64742-47-8	1-5 %	Xn	65
DIPHENYL METHANE-4,4'-DI-ISOCYANATE	202-966-0	101-68-8	0-1 %	Xn	20, 36/37/38, 42/43

The full text for all R-phrases are shown in section 16.

**COMPOSITION COMMENTS:** Prepolymer base on Methylcyclohexyldiisocyanate. Contains solvent.

#### 3 HAZARDS IDENTIFICATION

May cause sensitisation by inhalation.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 4 FIRST AID MEASURES

**INHALATION:** Move the exposed person to fresh air at once. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

**INGESTION:** DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Promptly get affected personnel to drink large volumes of water to dilute the swallowed chemical. Obtain medical advice. Provide rest, warmth and fresh air.

**SKIN:** Remove affected person from source of contamination. Wash skin with soap and water. Get medical attention if irritation develops.

**EYES:** Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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### 5 FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use extinguishing media appropriate for surrounding fire.

### 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS DURING SPILL:**

Before tackling a spillage put on protective equipment including suitable goggles, gloves, protective overalls and boots

**PRECAUTIONS TO PROTECT ENVIRONMENT:**

Avoid subsoil penetration. Prevent product from entering drains. Do not contaminate surface water.

**SPILL CLEANUP METHODS:**

Stop leak if possible without risk. Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

### 7 HANDLING AND STORAGE

**USAGE PRECAUTIONS:**

Avoid spilling, skin and eye contact. Observe good industrial safety and hygiene practice

**STORAGE PRECAUTIONS:**

Keep in original container. Protect against Freezing Store Between 5 and 30 Degrees C

### 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENT NAME	CAS No	STD	LT EXP (8 hrs)	ST EXP (15 min)
XYLENE	1330-20-7	OES	50 ppm(Sk)	100 ppm(Sk)
1,2,4-TRIMETHYLBENZENE	95-63-6		25 ppm	No std.
DIPHENYL METHANE-4,4'-DI-ISOCYANATE	101-68-8	MEL	0.02 mg/m3(Sen)	0.07 mg/m3(Sen)

**INGREDIENT COMMENTS:** OES = Occupational Exposure Standard.

**PROTECTIVE EQUIPMENT:**



**VENTILATION:**

No particular ventilation requirements.

**RESPIRATORS:**

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL).

**PROTECTIVE GLOVES:**

Use suitable protective gloves if risk of skin contact.

**EYE PROTECTION:**

If risk of splashing, wear safety goggles or face shield.

**OTHER PROTECTION:**

Wear appropriate clothing to prevent any possibility of skin contact.

**HYGIENIC WORK ROUTINES:**

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. No eating or drinking while working with this material.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:**

Paste or slurry.

**COLOUR:**

Various

**ODOUR/TASTE:**

Like Solvent

**SOLUBILITY DESCRIPTION:**

Immiscible with water.

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<b>BOILING POINT (°C):</b>	137 @ 760mmHg	<b>SPECIFIC GRAVITY (Water=1):</b>	1.17 @ 20 °C
<b>FLASH POINT (°C):</b>	40 - 55		
<b>FLASH POINT METHOD:</b>	Abel Closed Cup		
<b>AUTO IGNITION TEMPERATURE (°C):</b>	455	<b>FLAMMABILITY LIMIT (lower %):</b>	1
<b>FLAMMABILITY LIMIT (upper %):</b>	8		

### 10 STABILITY AND REACTIVITY

<b>STABILITY:</b>	Normally stable.
<b>CONDITIONS TO AVOID:</b>	Avoid excessive heat for prolonged periods of time.
<b>MATERIALS TO AVOID:</b>	Strong acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:**  
None other than those associated with the packaging

### 11 TOXICOLOGICAL INFORMATION

<b>TOXICOLOGICAL DATA:</b>					
Acute toxicity.	LD50.	Oral.	Rat.		8700 mg/kg
Acute toxicity.	LD50.	Skin.	Rabbit.		2000 mg/kg
Acute toxicity.	LD50.	1 hour.	Rat.		6350 mg/l

<b>TOXIC DOSE1- LD50:</b>	N/A
<b>HEALTH HAZARDS, GENERAL:</b>	Irritating to eyes
<b>INHALATION:</b>	May cause sensitisation by inhalation.
<b>HEALTH WARNINGS:</b>	Pulmonary sensitizer.
<b>OTHER HEALTH EFFECTS:</b>	May cause sensitisation to susceptible persons
<b>TARGET ORGANS:</b>	Skin. Eyes. Respiratory system, lungs.

### 12 ECOLOGICAL INFORMATION

**ENVIRONMENTAL HAZARDS:** Dangerous for the environment if discharged into watercourses.

### 13 DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS:** Dispose of in accordance with Local Authority requirements.

### 14 TRANSPORT INFORMATION

**ROAD:**  
**ROAD TRANSPORT NOTES:** Product not classified as dangerous goods under any transport regulations

**RAIL:**  
**RAIL TRANSPORT NOTES:** Product not classified as dangerous goods under any transport regulation

**SEA:**  
**MARINE POLLUTANT:** No.  
**AIR:**  
**AIR TRANSPORT NOTES:** Product not classified as dangerous goods under any transport regulations

**MASTERFLEX 474****15 REGULATORY INFORMATION****LABEL FOR SUPPLY:****HARMFUL**

<b>RISK PHRASES:</b>	R-42 R-52/53	May cause sensitisation by inhalation. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>SAFETY PHRASES:</b>	P-4 S-23A S-38 S-45  S-60	Contains isocyanates. See information supplied by the manufacturer. Do not breathe vapour. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  This material and its container must be disposed of as hazardous waste.
<b>EC DIRECTIVES:</b>	System of specific information relating to Dangerous Preparations. 91\155.	
<b>APPROVED CODE OF PRACTICE:</b>	Classification and Labelling of Substances and Preparations Dangerous for Supply.	
<b>GUIDANCE NOTES:</b>	Occupational Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).	

**16 OTHER INFORMATION**

<b>INFORMATION SOURCES:</b>	Dangerous Properties of Industrial Materials Report, N.Sax et.al.	
<b>REVISION DATE:</b>	01/12/06	
<b>REVISION No. /REPLACES SDS ISSUED:</b>	Issue 3	
<b>SDS No.:</b>	SDS0413	
<b>R-PHRASES (Full Text):</b>	R-10	Flammable.
	R-20	Harmful by inhalation.
	R-38	Irritating to skin.
	R-20/21	Harmful by inhalation and in contact with skin.
	R-36/37/38	Irritating to eyes, respiratory system and skin.
	R-42/43	May cause sensitisation by inhalation and skin contact.
	R-51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R-65	Harmful: may cause lung damage if swallowed.