



**SAFETY DATA SHEET  
MA644 / 650 ADHESIVE**

**1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

PRODUCT NAME MA644 / 650 ADHESIVE  
 PRODUCT NO. Z0094  
 SUPPLIER ITW Plexus  
 Unit 3 Shipton Way  
 Express Business Park  
 Northampton Road  
 Rushden  
 Northants NN10 6GL  
 +44 (0)870 458 7588  
 +44 (0)870 458 9077  
 sales@itwplexus.co.uk  
 EMERGENCY TELEPHONE +44 (0)208 762 8322

**2 HAZARDS IDENTIFICATION**

Highly flammable. May cause sensitisation by skin contact. Irritating to respiratory system and skin.

CLASSIFICATION Xi;R37/38. R43. F;R11.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content	Classification
METHYL METHACRYLATE	201-297-1	80-62-6	30-60%	F;R11 R43 Xi;R37/38

The Full Text for all R-Phrases are Displayed in Section 16

**4 FIRST-AID MEASURES**

**GENERAL INFORMATION**

Avoid contact with eyes. Do not breathe vapour/spray. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

**INHALATION**

Move the exposed person to fresh air at once. Contact physician if discomfort continues.

**INGESTION**

Do not induce vomiting. Drink plenty of water. Get medical attention.

**SKIN CONTACT**

Remove affected person from source of contamination. Wash skin thoroughly with soap and water for several minutes. Contact physician if irritation persists.

**EYE CONTACT**

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. Contact physician if irritation persists.

**5 FIRE-FIGHTING MEASURES**

**EXTINGUISHING MEDIA**

Extinguish with foam, carbon dioxide or dry powder.

**SPECIAL FIRE FIGHTING PROCEDURES**

Keep up-wind to avoid fumes. Avoid water in straight hose stream; will scatter and spread fire. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

**MA644 / 650 ADHESIVE****SPECIFIC HAZARDS**

Highly flammable. Avoid breathing fire vapours. May travel considerable distance to source of ignition and flash back. Polymerises generating heat.

**PROTECTIVE MEASURES IN FIRE**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Warn everybody of potential hazards and evacuate if necessary. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Remove sources of ignition. Avoid inhalation of spray mist and contact with skin and eyes.

**ENVIRONMENTAL PRECAUTIONS**

Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

**SPILL CLEAN UP METHODS**

Absorb spillage with non-combustible, absorbent material. Transfer to a container for disposal. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded. Take precautionary measures against static discharges. Storage tanks and other containers must be grounded. Do not smoke, use naked flames or other sources of ignition. Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices.

**STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
METHYL METHACRYLATE	WEL	50 ppm	208 mg/m <sup>3</sup>	100 ppm	416 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

**PROCESS CONDITIONS**

Provide eyewash, quick drench.

**ENGINEERING MEASURES**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

**RESPIRATORY EQUIPMENT**

In case of inadequate ventilation or when the product is heated, use suitable respiratory equipment with gas filter (type A2).

**HAND PROTECTION**

Use protective gloves made of: Rubber or plastic.

**EYE PROTECTION**

Wear approved, tight fitting safety glasses where splashing is probable.

**HYGIENE MEASURES**

Keep away from food, drink and animal feeding stuffs. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Change work clothing daily before leaving work place.

**SKIN PROTECTION**

Protection suit must be worn.

**9 PHYSICAL AND CHEMICAL PROPERTIES****APPEARANCE**

Paste

**MA644 / 650 ADHESIVE**

COLOUR	White / off-white		
BOILING POINT (°C)	101	MELTING POINT (°C)	-47.7
RELATIVE DENSITY	.93 - 1.05 @ 20 °C	VAPOUR PRESSURE	28mmHg 20
VISCOSITY	16,000-22,000 cps 25	FLASH POINT (°C)	10
FLAMMABILITY LIMIT - LOWER(%)	2.1	FLAMMABILITY LIMIT - UPPER(%)	12.5

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions and recommended use.

**CONDITIONS TO AVOID**

Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Heating will generate vapours which may form explosive vapour/air mixtures.

**HAZARDOUS POLYMERISATION**

May polymerise.

**MATERIALS TO AVOID**

Avoid contact with oxidisers or reducing agents. Bases, alkalies (inorganic). Bases, alkalies (organic).

**HAZARDOUS DECOMPOSITION PRODUCTS**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Fire or high temperatures create: Nitrous gases (NOx). Cyanides.

**11 TOXICOLOGICAL INFORMATION**

TOXIC DOSE 1 - LD 50 >5, 000 mg/kg (oral rat)

TOXIC CONC. - LC 50 >22.4 mg/l/4h (inh-rat)

**INHALATION**

Vapour may irritate respiratory system or lungs. Contains organic solvents which in case of overexposure may depress the central nervous system causing dizziness and intoxication. Central nervous system depression.

**SKIN CONTACT**

Irritating to skin. Prolonged or repeated exposure may cause severe irritation. May cause sensitisation by skin contact. Risk of sensitisation or allergic reactions among sensitive individuals.

**HEALTH WARNINGS**

Prolonged exposure to the preparation may cause serious health effects.

**TARGET ORGANS**

Prolonged or repeated exposure may cause: May cause damage to the liver and kidneys. Respiratory system, lungs. Central nervous system.

Name	METHYL METHACRYLATE
Toxic Dose 1 - LD 50	7872 mg/kg (oral rat)
Toxic Conc. - LC 50	7093 ppm/4h (inh-rat)

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

Avoid release to the environment.

**MOBILITY**

Do not discharge into drains, water courses or onto the ground.

**DEGRADABILITY**

Methyl methacrylate monomer : Biochemical oxygen demand within 5 days (BOD5) = .14 g/g - 0.9 g/g.

**WATER HAZARD CLASSIFICATION**

WGK 1 WGH Nr:1252

**13 DISPOSAL CONSIDERATIONS**

**MA644 / 650 ADHESIVE**

## DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

## WASTE CLASS

08 04 09

**14 TRANSPORT INFORMATION**

UK ROAD CLASS	3	UK ROAD PACK GR.	II
PROPER SHIPPING NAME	ADHESIVES	ADR CLASS	Class 3: Flammable liquids.
UN NO. ROAD	1133	HAZARD No. (ADR)	33
ADR CLASS NO.	3	HAZCHEM CODE	3YE
ADR PACK GROUP	II	RID CLASS NO.	3
ADR LABEL NO.	3	UN NO. SEA	1133
CEFIC TEC(R) NO.	30GF1-I+II, 30GF1-sp	IMDG PAGE NO.	3
RID PACK GROUP	II	EMS	F-E, S-D
IMDG CLASS	3	MARINE POLLUTANT	No.
IMDG PACK GR.	II	AIR CLASS	3
MFAG	See Guide		
UN NO. AIR	1133		
AIR PACK GR.	II		

**15 REGULATORY INFORMATION**

## LABELLING



Irritant



Highly Flammable

## CONTAINS

METHYL METHACRYLATE

## RISK PHRASES

R11	Highly flammable.
R43	May cause sensitisation by skin contact.
R37/38	Irritating to respiratory system and skin.

## SAFETY PHRASES

S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S24	Avoid contact with skin.
S29	Do not empty into drains.
S33	Take precautionary measures against static discharges.
S51	Use only in well-ventilated areas.

**16 OTHER INFORMATION**

REVISION DATE: 19/09/2008

## MA644 / 650 ADHESIVE

REVISION DATE 19/09/2008

REV. NO./REPL. SDS GENERATED 10

DATE 01.02.2005

### RISK PHRASES IN FULL

R11 Highly flammable.  
R37/38 Irritating to respiratory system and skin.  
R43 May cause sensitisation by skin contact.

### DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.