

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING· **PRODUCT NAME:** Adhesive EU· **SUPPLIER:****KGS DIAMOND INTERNATIONAL**

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2 HAZARDS IDENTIFICATION

Highly flammable. Irritating to respiratory system and skin.

May cause sensitisation by skin contact.

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

3 COMPOSITION/INFORMATION ON INGREDIENTS

Naam	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 skin and eyes. Do not breathe vapour/spray.

In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

· **INHALATION**

Remove victim immediately from source of exposure. Get medical attention if any discomfort continues.

· **INGESTION**

DO NOT INDUCE VOMITING! Drink plenty of water. Get medical attention if any discomfort continues.

· **SKIN CONTACT**

Remove contaminated clothing immediately and wash skin with soap and water.

Get medical attention if any discomfort continues.

· **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.

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5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire can be extinguished using: Carbon dioxide (CO₂). Dry chemicals. Water spray. (Contd. of page 1)

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. 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.

SPECIFIC HAZARDS

HIGHLY FLAMMABLE! Do not breathe vapour.
May travel considerable distance to source of ignition and flash back. Polymerises generating heat.

PROTECTIVE MEASURES IN FIRE

Use air-supplied respirator during fire fighting.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Avoid inhalation of spray mist and contact with skin and eyes.
Wear protective clothing as described in Section 8 of this safety data sheet.
Provide adequate ventilation. Remove or isolate all sources of ignition.

ENVIRONMENTAL PRECAUTIONS

Do not allow ANY environmental contamination. 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

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 eat, drink or smoke when using the product. Avoid heat, flames and other sources of ignition. Avoid contact with skin and eyes.

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

Naam	STD	LT - ppm	LT - mg/m ³	ST - ppm	ST - mg/m ³
METHYL METHACRYLATE	MAC	50 ppm	208 mg/m ³	100 ppm	416 mg/m ³

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 use suitable respirator.

(Contd. on page 3)

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HAND PROTECTION

Protective gloves are recommended. Rubber or plastic.

EYE PROTECTION

Wear approved safety goggles.

(Contd. of page 2)

HYGIENE MEASURES

Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Change work clothing daily before leaving work place.

Keep away from food, drink and animal feeding stuffs.

SKIN PROTECTION

Wear apron or protective clothing in case of splashes.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous liquid
COLOUR	Clear
ODOUR	Slightly pungent odour
SOLUBILITY	Slightly soluble in water.
BOILING POINT (°C)	100.5
RELATIVE DENSITY	0.936 20
VAPOUR PRESSURE	28 mm Hg 20
FLASH POINT (°C)	10 Not noted.
MELTING POINT (°C)	-47.7
VAPOUR DENSITY (air=1)	3.5
EVAPORATION RATE	3 (butyl acetate = 1)
FLAMMABILITY LIMIT - UPPER(%)	12.5
FLAMMABILITY LIMIT - LOWER(%)	2.1

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. Avoid exposure to high temperatures or direct sunlight.

HAZARDOUS POLYMERISATION

May polymerise.

MATERIALS TO AVOID

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

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 7872 mg/kg (oral rat)

TOXIC CONC., LC50 7093 mg/l/4h (inh-rat)

INHALATION

Irritating to respiratory system. In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects.

Risk of sensitisation or allergic reactions among sensitive individuals.

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(Contd. of page 3)

SKIN CONTACT

May cause sensitisation by skin contact. Prolonged contact may cause redness, irritation and dry skin. Risk of sensitisation or allergic reactions among sensitive individuals.

EYE CONTACT

Irritating to eyes.

TARGET ORGANS

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

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Avoid release to the environment.

MOBILITY

Biochemical oxygen demand within 5 days (BOD5) = 0.14g/g - 0.90 g/g;
 Theoretical oxygen demand (ThOD) = 1.92g/g

BIOACCUMULATION

LC50/96h/fathead minnows = 150 ppm, LC50/96h/bluegill sunfish = 232ppm.

WATER HAZARD CLASSIFICATION

WGK 1

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

14 TRANSPORT INFORMATION



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

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15 REGULATORY INFORMATION

(Contd. on page 4)

LABELLING



Irritant



Highly Flammable

CONTAINS

METHYL METHACRYLATE

RISK PHRASES

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

SAFETY PHRASES

S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition - No smoking.
S24 Avoid contact with skin.
S37 Wear suitable gloves.
S51 Use only in well-ventilated areas.
S60 This material and its container must be disposed of as hazardous waste.

16 OTHER INFORMATION

RISK PHRASES IN FULL

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

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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.