

# MONO ETHYLENE GLYCOL (MEG)

## 1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY

### 1.1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION:

**Trade name** : MONO ETHYLENE GLYCOL (MEG)  
**Toxic information** : 22 59 13 00  
**Application** : MEG/MISCELLANEOUS

### 1.2 IDENTIFICATION OF THE COMPANY:

RAR Resin & Chemical Industries JLT  
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## 2 CHEMICAL COMPOSITION OF PIGMENT YELLOW 34

Composition	CAS-NO	EC-NO	%CONC.	CH	CF	CE	R-Phrases	NOTE
Monoethylenglykol	107-21-1	203-473-3	100	Xn			22	

## EXPLANATION

CF/CH/CE= Classification fire/-health/-environment, Tx= Very toxic, T= Toxic, C=Corrosive, Xn= harmful, Xi= Irritating, IK= No classification required, E= Explosive O= Oxidizing, Fx= Extremely Flammable, N=Danger for environment, M= Genotoxic, A= Sensitisation, K= Carcinogen, R= Causes birth defects.

Composition components are listed according to guideline for safety data sheets.

## 3. HAZARDS IDENTIFICATION



### MORE INFORMATION

Harmful if swallowed  
Not flammable.  
Not regarded as an environmental hazard under current legislation.

#### 4. FIRST AID MEASURES

**GENERAL:** Remove affected person from source of contamination. Provide rest, warmth and fresh air. Keep affected person under observation. Get medical attention if necessary or contact emergency centre. Refer to the Safety data Sheet for this chemical. When unconscious, loosen tight clothing and position in secured recovery position. In case of suspended respiratory/ heart action: Start resuscitation.

**INHALATION:** Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position.

**SKIN CONTACT:** Flush immediately contaminated skin with water. Wash skin thoroughly with soap and water. Continue to flush/ wash contaminated skin until all remainders of chemicals have been removed.

**EYE CONTACT:** Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Contact Physician if irritation persist.

**INGESTION: DO NOT INDUCE VOMITING!** If the affected person is awake, give water or other drink to flush the mouth and to dilute chemicals that have been swallowed. In case of vomiting, keep the head low to prevent blocking of respiratory tract and to prevent the chemical from entering the lungs. As soon as possible, contact doctor/ hospital for transport to hospital and continued treatment.

#### 5. FIRE FIGHTING MEASURES

**SUITABLE EXTINGUISH MEDIA:** Use extinguishing media appropriate for surrounding fire.

**FIRE AND EXPLOSION HAZARDS:** Hazardous combustion products: Carbon monoxide (CO). carbon dioxide (CO<sub>2</sub>)

**PERSONAL PROTECTION WHEN FIREFIGHTING:** Avoid skin contact/ inhalation of dust/ vapour. Wear appropriate protective clothing. Also see section 8. Fire personnel exposed of gases from the product is recommended to use respiratory protection.

**SPECIAL FIREFIGHTING PROCEDURES:** Use water to keep fire- exposed containers cool and disperse vapours.

#### 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear necessary protective equipment. See section 8.

**ENVIRONMENTAL PRECAUTIONS:** Inform authorities if large amounts involved. The product is soluble in water.

**CLEANING MEASURES:** Absorb in vermiculite, dry sand or earth and place into containers. Ventilate well. Dilute with copious amounts of water.

Containers with collected spillage must be properly labelled with correct contents and hazards symbol. For disposal methods see section 13.

#### 7. HANDLING AND STORAGE

**HANDLING:** Avoid spilling, skin and eye contact.

**STORAGE:** Keep in cool, dry, ventilated storage and closed containers.

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**DISCLAIMER:**

The information contained in this datasheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about the product is given in good faith. Since as we have no control over conditions of substrate, manufacturer and seller cannot accept cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current. For further information and advice please contact RAR RESIN Technical Service Department.

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## 8. EXPOSURE CONTROLS/ PERSONAL INFORMATION

COMPOSITION	OEL	unit	PPM	Note
Monoetylenglykol	-	25		

**EXPOSURE CONTROL:** Provide eyewash station. Provide sufficient ventilation during operations which cause vapour formation.

Hygienic work practices: Wash at the end of each work shift and before eating, smoking and using the toilet.

**RESPIRATORY PROTECTION:** No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL). Wear full face mask supplied with: Gas cartridge (organic substances).

**EYE PROTECTION:** Use approved safety goggles or face shield.

**HAND PROTECTION:** Use suitable protective gloves if risk of skin contact. Use protective gloves made: Neoprene, nitrile, polyethylene or PVC.

**SKIN PROTECTION:** Wear protection clothing to prevent any possibility of skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>FORM:</b>	<b>Fluid</b>	<b>ODOR:</b>	<b>Mild (or faint)</b>
COLOUR	: Colourless	SOLUBILITY:	Soluble in water
MELTING/FREEZING	: < -13 ( Deg C, interval)	BOILING POINT	
DENSITY	: 1.11 Temp (deg C): 25	FLASH POINT:	116 Method: CC (Closed cup)
EXPLOSION LIMITS	3.20 - 15.30 (%)	PH (CONCENTRATE):	78. Concentration: 10.
LELUEL %			
SOLUBILITY IN WATER :		MOL MASS :	
VAPOUR PRESSURE : 0.06. temp (deg C) :20		VISCOSITY:	21 mPas( Interval). temp (deg C) : 20
SATURATION CONC :		AUTO IGNITION TEMP	: 400 deg C Method: CC (closed cup)
DECOMPOSTION TEMP :		SMELL LIMIT:	
PH (SOLUTION) :		REL. VAPOUR DENSITY:	
		(AIR =1)	
Partition coefficient : 1.36 (log Pow)			

## 10. STABILITY AND REACTIVITY

**Stability:** Normally stable

**Reactivity:** Conditions to avoid: Strong oxidisers. Strong acids. Strong alkalis

## 11. TOXICOLOGICAL INFORMATION

### GENERAL

<b>Medical symptoms:</b>	ETHYLENE GLYCOL : this substance may cause intoxication if swallowed and may result in kidney damage due to precipitation of oxalic acid. Contact a doctor if on doubt. Dialysis may be necessary. Animal test have shown that ethylene glycol may harm unborn children. Pregnant women should avoid exposure.
<b>INHALATION:</b>	May cause irritation to the respiratory system. Solvent vapours are hazardous and may cause nausea, sickness and headaches.
<b>SKIN CONTACT:</b>	Acts as a defatting agent on skin. may cause cracking of skin and eczema. May be absorbed through skin.
<b>EYE CONTACT:</b>	Slightly irritating
<b>INGESTION:</b>	Harmful if swallowed. may cause severe internal injury. May cause liver / or renal damage.
<b>ORAL TOXICITY:</b>	22270 mg/kg (skin rabbit)

## 12. ECOLOGICAL INFORMATION

<b>MOBILITY:</b>	Solubility in water
<b>ACCUMULATION:</b>	Ethyleneglycol: No bioaccumulation (BCF Fish: 10)
<b>ECOTOXICITY:</b>	PLONOR Chemical, little or no danger to the environmental.

## 13. DISPOSAL

<b>DECONTAMINATION/ DISPOSAL:</b>	Confirm disposal procedures with environmental engineer and local regulations.
<b>DISPOSAL GROUP:</b>	Hazardous waste in accordance with EU directives. EWC- code: 07 01 04 waste number: 7152. Organic waste without halogen.

## 14. TRANSPORT INFORMATION

<b>UN NO:</b> LABEL: PACKING GROUP:	<b>ADR (Road)</b>	<b>CLASS:</b> DANG. GOODS HAZ. ID NO:
<b>UN NO:</b> LABEL: PACKING GROUP:	<b>RID (Railway)</b>	<b>CLASS:</b> DANG. GOODS
<b>UN NO:</b> LABEL: EMS: MARINE POLL:	<b>IMDG (SEA)</b>	<b>CLASS:</b> DANG. GOODS: PACKING GROUP: SUB. RISK:
<b>UN NO:</b> LABEL: SUB. RISK:	<b>IATA (Airplane)</b>	<b>CLASS:</b> DANG. GOODS: PACKING GROUP:

## 15. REGULATORY INFORMATION



### R-PHRASES:

R22 Harmful if swallowed.

### S- PHRASES:

S23 Do not breathe gas/ fumes/vapour/ spray  
S28 After contact with skin, wash immediately with plenty of water.  
S37/39 Wear suitable protective gloves and eye/ face protection

### REFERNCES:

Dangerous Substances Directive 67/ 548 EEC with annexes.  
Dangerous preparations Directive 1999/45/EEC  
Safety Data Sheet Directive 91/155 EEC and 2001/58 EC  
Hazardous Waste Directive 91/ 689 EEC and Directive 94/904 EC  
EU directive 2004/73/EF

### MORE INFORMATION:

Contains: Monoethylene glycol

## 16. OTHER INFORMATION

### MORE INFORMATION:

Explanation of R-phrases in Section 2: R-22 Harmful if swallowed.

Disclaimer: The information contained herein is based on our present state of knowledge and is intended to describe our products from the point of view of HSE requirements. It should not therefore be construed as quaranteeing specific properties.