

# Material Safety Data Sheet

## According to 91/155 EC

Printing date 12.06.2001

Reviewed on 12.06.2001


### 1 IDENTIFICATION OF SUBSTANCE:

- **Product details:** *Mega Part: 41-2001* *Suppliers Registered name and address*
- **Trade name:** *OPSR 5600 G10 Serie* *Mega Electronics Limited*
- **Manufacturer/** *Mega House, Grip Industrial Estate*  
*ELGA EUROPE Srl* *Linton, Cambridge, CB21 4XN*
- **Via della Merlata, 8** *-Tel: +44 (0) 1223 893900 / Fax: +44 (0) 1223 893894*
- **I-20014 NERVIANO - MILANO** *Tel: +39-0331.586.947 Fax: +39-0331.587.751*
- **Informing department:** *Product safety department.*

### 2 COMPOSITION/DATA ON COMPONENTS:

- **Chemical characterization**
- **Description:** *Mixture of the substances listed below with harmless additions.*

#### - Dangerous components:

	<i>Epoxy Acrylic Resin</i>		<i>30-55%</i>
<i>112-15-2</i>	<i>2-(2-ethoxyethoxy)ethyl acetate</i>		<i>10-15%</i>
<i>34590-94-8</i>	<i>(2-methoxymethylethoxy)propanol</i>		<i>5-10%</i>
<i>64742-94-5</i>	<i>Solvent naphtha (petroleum), heavy arom.</i>		<i>Xn; 65 1-5%</i>
	<i>Filler</i>		<i>20-25%</i>

### 3 Hazards identification

#### - Hazard designation:



*Xi Irritant*

- **Information pertaining to particular dangers for man and environment** *R 36/38 Irritating to eyes and skin.*
- **Classification system**  
*The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.*

### 4 First aid measures

- **After inhalation** *Supply fresh air and call for doctor for safety reasons.*
- **After skin contact**  
*Instantly wash with water and soap and rinse thoroughly.*  
*Seek medical treatment.*
- **After eye contact** *Rinse opened eye for several minutes under running water. Then consult doctor.*
- **After swallowing**  
*Call a doctor immediately.*  
*Rinse mouth with water*
- **Information for doctor** *Treat symptomatically.*

### 5 Fire fighting measures

- **Suitable extinguishing agents**  
*CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.*
- **For safety reasons unsuitable extinguishing agents** *Water.*
- **Special hazards caused by the material, its products of combustion or resulting gases:**  
*Formation of toxic gases is possible during heating or in case of fire.*
- **Protective equipment:** *Put on breathing apparatus.*

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### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective clothing.
- **Measures for environmental protection:** Do not allow product to reach sewage system or water bodies.
- **Measures for cleaning/collecting:**  
Ensure adequate ventilation.  
Transfer into suitable containers for recovery or disposal.

### 7 Handling and storage

- **Handling**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Avoid contact with eyes, skin and clothes  
Pay attention to ventilation: this vapor is heavier than air, and easily stays at low position.
- **Information about protection against explosions and fires:**  
Protect from heat.  
Keep breathing equipment ready.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage**
- **Requirements to be met by storerooms and containers:**  
Store only in the original container.  
Store in cool location.  
Open only under gold fluorescent or equivalent yellow safelight
- **Information about storage in one common storage facility:**  
Store away from oxidizing agents.  
Store away from reducing agents.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in the dark.
- **Storage class**
- **Class according to regulation on inflammable liquids:** A III

### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:**  
Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation, and control of process conditions.

- **Components with limit values that require monitoring at the workplace:**

7727-43-7 barium sulphate, natural	
OES	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable dust **respirable dust
34590-94-8 (2-methoxymethylethoxy)propanol	
OES	Long-term value: 308 mg/m <sup>3</sup> , 50 ppm Sk, ILV
872-50-4 N-methyl-2-pyrrolidone	
OES	Short-term value: 309 mg/m <sup>3</sup> , 75 ppm Long-term value: 103 mg/m <sup>3</sup> , 25 ppm Sk

- **Additional information:** The lists that were valid during the compilation were used as basis.

- **Personal protective equipment**
- **General protective and hygienic measures**  
Keep away from foodstuffs, beverages and food.  
Take off immediately all contaminated clothing  
Wash hands during breaks and at the end of the work.

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Avoid contact with the eyes and skin.

**- Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

**- Protection of hands:** Protective gloves.

**- Eye protection:** Tightly sealed safety glasses.

### 9 Physical and chemical properties:

**- Form:** Viscous

**- Colour:** Different according to colour

**- Odour:** Characteristic

**- Change in condition**

**Melting point/Melting range:** <0°C

**Boiling point/Boiling range:** Not determined

**- Flash point:** 67°C

**- Self-inflammability:** Product is not selfigniting.

**- Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.

**- Density at 20°C** N.D. g/cm<sup>3</sup>

**- Solubility in / Miscibility with Water:** Insoluble

**- Solvent content: Water:** 0.0 %

**- Solids content:** x %

### 10 Stability and reactivity

**- Thermal decomposition / conditions to be avoided:**

Heating may produce toxic exhalations.

Avoid high temperature

Exposure to direct sunlight

Use under W (Tungsten) or yellow light

**- Materials to be avoided:**

Oxidising agents

Reducing agents

**- Dangerous reactions**

No dangerous reactions known

May polymerise if exposed to heat, direct sunlight

**- Dangerous products of decomposition:**

Combustion may cause irritating fumes.

Carbon monoxide

### 11 Toxicological information

**- Acute toxicity:**

**- LD/LC50 values that are relevant for classification:**

**112-15-2 2-(2-ethoxyethoxy)ethyl acetate**

Oral	LD50	4400 mg/kg (rab)
		11000 mg/kg (rat)
Dermal	LD50	15000 mg/kg (rab)

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**34590-94-8 (2-methoxymethylethoxy)propanol**

Oral LD50 5135 mg/kg (rat)

Dermal LD50 9500 mg/kg (rat)

**64742-94-5 Solvent naphtha (petroleum), heavy arom.**

Oral LD50 5000 mg/kg (rat)

**- Primary irritant effect:****- on the skin:** Irritant to skin and mucous membranes.**- on the eye:** Irritant effect.**- Sensitization:** Sensitization possible by skin contact.**- Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

**12 Ecological information:****- Information about elimination (persistence and degradability):****- Other information:** The product is expected to be partially or slowly biodegradable.**- Behaviour in environmental systems:****- Mobility and bioaccumulation potential:** Product is not expected to bioaccumulate.**- General notes:** The product may be toxic to aquatic organism**13 Disposal considerations****- Product:****- Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**- Uncleaned packagings:****- Recommendation:** Disposal must be made according to official regulations.**14 Transport information****- Land transport ADR/RID (cross-border)****- ADR/RID-GGVS/E Class:** -**- Maritime transport IMDG:****- IMDG Class:** -**- Marine pollutant:** No**- Air transport ICAO-TI and IATA-DGR:****- ICAO/IATA Class:** -**15 Regulatory information****- Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

**- Code letter and hazard designation of product:**

Xi Irritant

**- Risk phrases:** 36/38 Irritating to eyes and skin.

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**- Safety phrases:**

23 Do not breathe fumes.

24/25 Avoid contact with skin and eyes.

**- National regulations****- Classification according to VbF: A III****- Technical instructions (air):**

Class	Share in %
Acqua	0.8
III	7.0

**16 Other information:**

*These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**- Department issuing data specification sheet:** Environment protection department.

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