

## SAFETY DATA SHEET

according to EC directive 91/155/EEC

Print Date: 30.01.2007

Revision Date : 23.01.2007

Version : 2.0

REG\_EU / EN

Trade name: **RESIMENE 747**

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

#### Product information

Trade name : RESIMENE 747  
Company : **INEOS Melamines GmbH**  
Alt Fechenheim 34  
60386 Frankfurt am Main  
Germany  
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#### Use

Specific use(s) : Binding agent

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical nature

Methylated melamine formaldehyde resin

#### Hazardous components

No dangerous ingredients according to Directive 2001/58/EC

### 3. HAZARDS IDENTIFICATION

#### Risk advice to man and the environment

Sensitization : Contains: Formaldehyde, May produce an allergic reaction.

### 4. FIRST AID MEASURES

General advice : Remove from exposure, lie down. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person. Take off all contaminated clothing immediately.

Inhalation : Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.

Skin contact : Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact : Remove contact lenses. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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<u>Ingestion</u>	:	If swallowed, seek medical advice immediately and show this container or label. If a person vomits when lying on his back, place him in the recovery position. Do NOT induce vomiting.
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### 5. FIRE-FIGHTING MEASURES

<u>Suitable extinguishing media</u>	:	Water spray Foam Carbon dioxide (CO2) Dry chemical
<u>Extinguishing media which must not be used for safety reasons</u>	:	High volume water jet
<u>Specific hazards during fire fighting</u>	:	Fire will produce dense black smoke containing hazardous combustion products (see heading 10).
<u>Special protective equipment for fire-fighters</u>	:	Please wear suitable respiratory protection equipment.
<u>Further information</u>	:	Standard procedure for chemical fires. Exposure to decomposition products may be a hazard to health. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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### 6. ACCIDENTAL RELEASE MEASURES

<u>Personal precautions</u>	:	Ventilate the area. Avoid inhalation of vapour or mist. Refer to protective measures listed in sections 7 and 8.
<u>Environmental precautions</u>	:	Should not be released into the environment. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.
<u>Methods for cleaning up</u>	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Flush away traces with water.
<u>Additional advice</u>	:	Treat recovered material as described in the section "Disposal considerations".

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### 7. HANDLING AND STORAGE

#### Handling

Advice on safe handling : Formaldehyde can be released during the processing.  
Do not breathe vapours or spray mist.  
Avoid contact with skin and eyes.  
Use only in well-ventilated areas.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Dust explosion class : not applicable

#### Storage

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage : Keep away from food, drink and animal feeding stuffs.  
Keep away from oxidising agents and strongly acid or alkaline materials.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Control parameters	Note	Update	Basis
methanol	67-56-1	260 mg/m3 200 ppm	H	02 2006	EU ELV

#### Engineering measures

General advice : Provide adequate ventilation.

#### Personal protective equipment

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.

#### Hand protection

Material : Fluorinated rubber  
Nitrile rubber  
Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.  
For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove

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manufacturer.

- Eye protection : Tightly fitting safety goggles
- Skin and body protection : impervious clothing
- Hygiene measures : Preventive skin protection (protective ointment for the skin)  
When using, do not eat, drink or smoke.  
Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and at the end of workday.  
Wash contaminated clothing before re-use.  
Keep away from food and drink.  
Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

- Form : viscous  
liquid
- Colour : colourless
- Odour : slight  
formaldehyde

#### Safety data

- Boiling point/range : 100 - 200 °C
- Flash point : 110 °C
- Density : 1,2 g/cm<sup>3</sup>  
at 25 °C  
Method: DIN 12791
- Water solubility : slightly soluble
- Viscosity, dynamic : 3.000 - 6.800 mPa.s  
at 23 °C  
Method: ISO 3219

### 10. STABILITY AND REACTIVITY

- Materials to avoid : Strong acids and strong bases  
Oxidizing agents

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<u>Hazardous decomposition products</u>	: Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke. ammonia Alcohols Formaldehyde
<u>Thermal decomposition</u>	: No decomposition if used as directed.

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### 11. TOXICOLOGICAL INFORMATION

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<u>Acute oral toxicity</u>	: LD50 rat Dose: > 2.000 mg/kg The toxicological data has been taken from products of similar composition.
<u>Acute dermal toxicity</u>	: LD50 rabbit Dose: > 5.000 mg/kg The toxicological data has been taken from products of similar composition.
<u>Skin irritation</u>	: rabbit Result: No skin irritation
<u>Eye irritation</u>	: rabbit Result: No eye irritation
<u>Further information</u>	: The International Agency for Research on Cancer (IARC) has classified formaldehyde as a Group 1 (known) human carcinogen based on epidemiological evidence linking formaldehyde exposure to occurrence of nasopharyngeal cancer. The product is classified and labelled in accordance with Directive 1999/45/EC.

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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity effects

<u>Toxicity to fish</u>	: LC50 Species: Bluegill sunfish Dose: > 1.000 mg/l Exposure time: 96 h Information given is based on data on the components and the ecotoxicology of similar products.
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#### Further information on ecology

<u>Adsorbed organic bound halogens (AOX)</u>	: not included
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Other ecotoxicological advice : The product should not be allowed to enter drains, water courses or the soil.

### 13. DISPOSAL CONSIDERATIONS

Advice on disposal and packaging : Disposal:  
Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. In accordance with local and national regulations.

Disposal of uncleaned packaging : Dispose of as unused product.

### 14. TRANSPORT INFORMATION

#### Land transport

▪ ADR / GGVS:

Regulation: Not dangerous goods

▪ RID / GGVE:

Regulation: Not dangerous goods

#### Sea transport

▪ IMDG:

Regulation: Not dangerous goods

#### Air transport

▪ ICAO/IATA:

Regulation: Not dangerous goods

### 15. REGULATORY INFORMATION

Sensitization : Contains: Formaldehyde, May produce an allergic reaction.

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VOC: : Directive 1999/13/EC  
0,3 %  
Volatile CMR compounds [%]: 0 %  
Volatile halogenated compounds / R40 [%]: 0 %  
VOC content less water: 3,6 g/l

### National legislation

### Notification status

List	Status
ENCS (JP)	y (positive listing)
KECI (KR)	y (positive listing)
INV (CN)	y (positive listing)
AICS	y (positive listing)
PICCS (PH)	y (positive listing)
TSCA	y (positive listing)
EINECS	y (positive listing)
DSL	y (positive listing)

The polymer contained within this product is exempt from listing in the European Inventory (EINECS). The monomers used to manufacture this polymer are listed as required, as are all other components of this product.

## 16. OTHER INFORMATION

### Further information

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